Putnam County
Port Master Plan

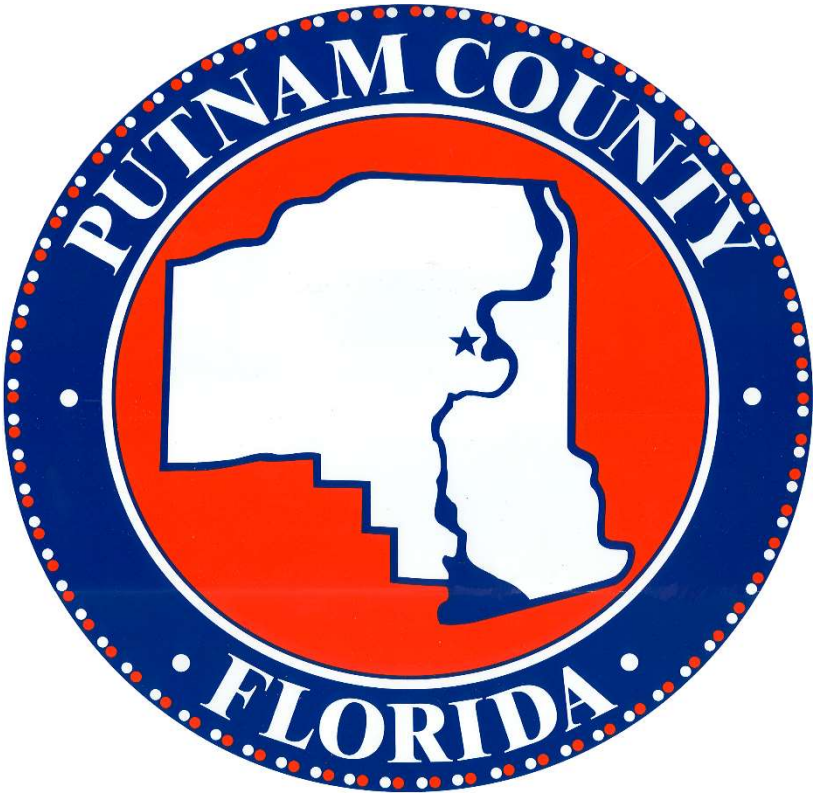


TABLE OF CONTENTS

EXECUTIVE SUMMARY

The 2023 Port Putnam Master Plan provides a framework for the Port's revitalization and development program over the next ten years to facilitate the Putnam County Port Authority's goals of job creation and economic revitalization. Currently, these projects have started as evidenced by the leasing of port property to a local ship manufacturing company, the granting of Federal dollars by the Maritime Administration to study the current properties, markets and plans in order to enhance the economic opportunities presented by the port's revitalization and enhance the Master Plan itself. The facility will positively affect the local employment market and permit long-term established local companies to expand their commercial outreach and expand their individual operations.

PORT OVERVIEW

Port Putnam consists of 17 acres located in an industrial zone north of the city of Palatka, the county seat. This property includes 400 feet of waterfront along the St. John's River that connects Central Florida to the Atlantic Ocean. While still mostly undeveloped, the Port's current infrastructure and location offers ideal development potential with its current waterway, rail line, major highway, and municipal airport access.

Opportunities

Port Putnam is located at a waterway, rail and road intersection which makes its location ideal for development of a regional transportation hub. The Federal waterway along the St. John's River connects Central Florida to the Atlantic Ocean and JaxPort. The rail line connects the Port to Jacksonville, Tampa, Orlando, Miami, and beyond. The road network that crosses the city of Palatka, just south of Port Putnam, connects the city with Interstates and major highways that traverse the State of Florida and beyond. Additionally, the Palatka airport is less than two miles from the Port and is poised to expand its runway length to accommodate larger cargo planes. The combination of these elements along with its central location make Port Putnam the ideal spot for the development of an intermodal cargo hub.

Certainteed, a subsidiary of Saint Gobain, has just expanded its Palatka operation resulting in doubling their import of gypsum and other raw materials from Spain. Currently, they ship the cargo into JaxPort then truck it to their plant. They have expressed a strong desire to transfer cargo at JaxPort from bulk carrier to barge and to ship their material through Port Putnam. This would not only reduce their transportation cost, it would also reduce their carbon footprint.

Beck Automotive, one of the Southeastern United States' largest automotive parts supplier, has expressed a strong desire to utilize Port Putnam to barge parts to new markets to expand their market and their local operation.

Veritas Steel manufactures bridge girders for accessible markets. Their current market is limited to components that can be transported across roads. With the revitalization of Port Putnam, they will have the ability to conquer new markets requiring larger girders as barge transportation will enable them to ship larger components. Furthermore, they currently import their steel by rail. Barge access to steel markets will permit them to import larger quantities of steel at one time resulting in less deliveries and lower raw material costs for them. The sum of these points will provide them with the opportunity to double their current operation and staff.

Putnam County and its surrounding areas are primarily agricultural. This industry requires fertilizer, growing media, stockfeed, inhibitors, chelates, dispersants and dust suppressants. These are currently transported by road for long distances resulting in high out-of-cost pockets for local farmers. Importing these materials into Port Putnam and then distributing them to local markets would reduce their transportation costs, a benefit to local farmers. Similarly, barge access would provide local farmers with a low cost solution for farm to market transportation.

Development Costs

The United States Army Corps of Engineers is in the last phase of conducting its Tentatively Selected Plan TSP hereafter) for the dredging of an access channel at Port Putnam. The Putnam County Port Authority's share will be twenty percent of the total cost which will be determined when the TSP is released. The channel dredging is essential to the port's revitalization.

Port Putnam's main infrastructure was constructed in 1961 and is nearing its life expectancy. Additionally, no as-builts or plans exist for either the bulkhead or the dockage area. In order to accommodate modern cargo needs, the bulkhead requires replacement and the dockage considerable refurbishing. The estimated cost for these infrastructure needs amounts to a little more than $3 million.

Additional development should take place at the Port Annex located across Comfort Road from the Port. This sixteen (16) acre property is adjacent to CSX's main Jacksonville-Miami line and provides an ideal location for a cargo rail spur servicing a rail cart loading and unloading dock. This opportunity and the associated costs will be determined in the Port Infrastructure Development Grant partially funded by the U.S. Department of Transportation's Maritime Administration.

Economic Impacts

By restoring shipping activities to Port Putnam, the Putnam County Port Authority will provide the area with the opportunity for local manufacturers and business to expand their operation resulting in the creation of well-paying jobs and economic vitality for the region. Furthermore, the development of a regional cargo hub at the Port will provide incentive for businesses to relocate to the region importing additional well-paying jobs as well.

Goals

Goal 1: Economic Growth

Port Putnam, located in Putnam County just north of the City of Palatka the county seat, intends to plan and develop a functional commercial cargo vessel facility taking into consideration market forecasts, business inquiries, community's industrial and commercial resources, and working in cooperation with its public and private partners to create jobs and stimulate local and regional economic development. To achieve this goal, Port Putnam will engage professional experts using Maritime Administration Port Infrastructure Development grant funds to develop a phased program of infrastructure development and targeted marketing to provide the maximum possible economic, environmental, and social benefits to the community and region.

Goal 2: Regional Collaboration

Port Putnam shall coordinate efforts with State and Local government as well as private stakeholders, and collaborate with some on initiatives to enhance economic development opportunities in Northeast Florida.

Goal 3: Environment

Port Putnam is committed to preserving and protecting the quality of environmental resources in the community. It shall conserve and protect these resources consistent with port development and expansion.

Goal 4: Transportation Efficiencies

Port Putnam will work with Local, State and Federal agencies as well as private entities responsible for road, water, air, and rail connectivity to ensure that the intermodal transportation infrastructure and connectivity necessary for Port operations are in place.

Goal 5: Security

Port Putnam will establish programs and measures to protect human life and property from natural and man-made disasters.

Goal 6: Financial Stability

Measures shall be undertaken to ensure Port Putnam's financial health as it develops and expands.

CHAPTER ONE

INTRODUCTION

This 2023 Port Putnam Master Plan provides a framework for Port development and expansion through the next ten years to facilitate the Putnam County Port Authority's goal of job creation and economic revitalization while cognizant and observant of the requirements of Chapters 163 and 311, Florida Statutes. It takes a look at opportunities presented by local and regional manufacturers and shippers in striving to initiate operations at the facility and generate local, regional, and statewide economic benefits.

In its efforts to revitalize Port operations, the Putnam County Port Authority is committed to intergovernmental coordination and cooperation with Putnam County, the State of Florida and the United States. It will also work with private entities, local, regional or national, to complete the revitalization of Port Putnam. The Port's mission statement, goals, objectives and policies will govern the Port Putnam's development and revitalization over the planning period herein.

1.1 PORT LOCATION

Port Putnam is located just north of the city limits of Palatka, the Putnam County seat, in Northeast Florida as shown in Figure 1-1 and Figure 1-2. Port Putnam is located 56 miles south of Jacksonville, 46 miles east of Gainesville, 33 miles southwest of St Augustine, 57 northwest of Daytona, and 103 miles north of Orlando, all large to medium Florida markets. The Port area addressed in this Master Plan encompasses 17 acres of developed and adaptable property adjacent or close to the St John's River.

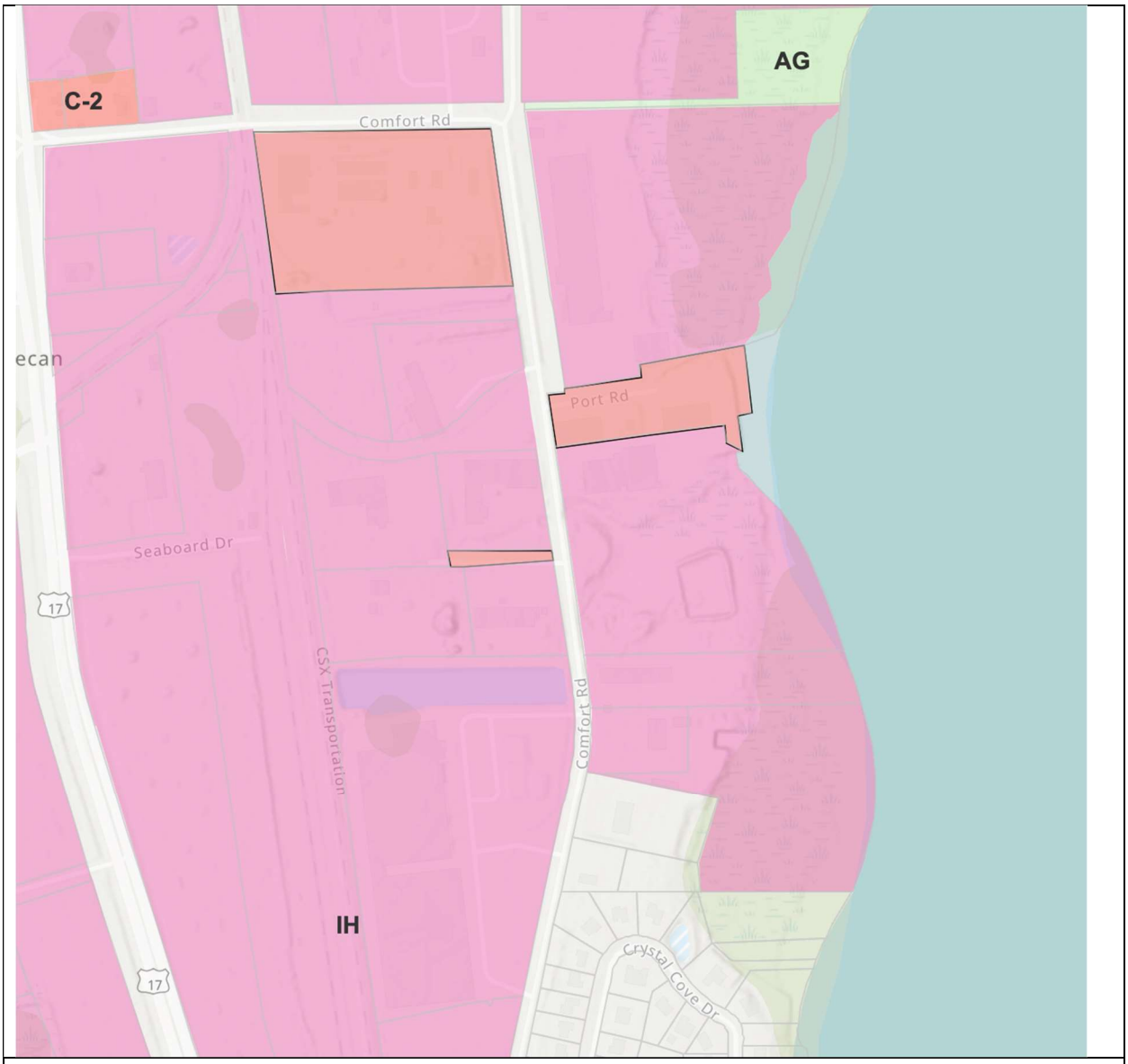


Figure 1-3: location of Port Putnam in Industrial Zone

As used in this Master Plan, “the Port” refers to Port Putnam. The Port’s primary goal is to reactivate waterborne commerce in Putnam County and the region, which will result in bringing shippers to the area to expand the operations of local manufacturers and industries resulting, in turn, with creation of much needed well-paying jobs in the area.

1.2 PORT HISTORY

Port Putnam’s bulkhead and dockage area were constructed in 1961 with the intention of being a port of call along the Florida Barge Canal.

Figure 1-4: Florida Barge Canal Project (Source: Florida Capitol Historic Museum)

In support to the area's efforts to provide a regional port along the Cross Florida Barge Canal, on July 4, 1967, the Florida Legislature established by decree the Putnam County Port Authority (HB 2200-Appendix A). In 1970, Putnam County enhanced the port's facility with the erection of two twenty-thousand (20,000) square foot enclosed warehouses to provide weather-secure storage for inbound and outbound cargo. In 1971, President Richard Nixon, citing economic inefficiencies and unacceptable environmental risks, stopped the Cross Florida Barge Canal project by executive order. Since that moment, the Port remained mostly inactive except for occasional calls for oversized exports for Veritas Steel, the Port's immediate neighbor to the North, for the import of large components for Georgia-Pacific's multi-million dollar plant expansion, and for removal of hurricane debris from the St. John's River. This period of inactivity permitted the accumulation of silt material in the access channel prohibiting vessels with draft greater than 6 feet to call at Port Putnam.

In 2013, the Florida Department of Transportation announced its First Coast Expressway project creating an express roadway circumventing Jacksonville to the Southwest, connecting Interstate 10 at Cecil Field to Interstate 95 in Northern St. John's County.

This project includes replacing the Shands Bridge that crosses the St. John's River at Green Cove Springs. This replacement would increase the Federal Waterway's air draft at that junction from 45 to 65 feet as well as widening it to 120 feet, making the passage of commercial cargo vessels a possibility. Under the leadership of former U.S. Representative Ted Yoho (FL-3), county leaders and federal agencies were brought together initially to help invigorate the ship building industry in Putnam County as a taller

bridge would allow builders to bid on larger sized vessels. This meeting led to the Port Putnam revitalization project including the U.S. Army Corps of Engineers' opening a Cap 107 project to study the feasibility, and possibly eventually, dredging an access channel 12 feet in depth from the Federal Waterway along the St. John's River to Port Putnam. In March of 2024, the Jacksonville office of the U.S. Army Corps of Engineers will present its Tentatively Selected Plan to headquarters for approval necessary to commence dredging operations. In 2022, Putnam County successfully applied for a Port Infrastructure Development grant from the U.S. Department of Transportation's Maritime Administration; this grant would permit Port Putnam to engage a professional consultant firm to develop a Port Development Plan for the facility.

1-3 INSTITUTIONAL AND LEGISLATIVE CONTEXT

The Putnam County Port Authority, which administers Port Putnam, was created by act of the Florida Legislature under House Bill 2200 in 1967 (see Appendix A). The law designates the sitting elected members of the Putnam County Board of County Commissioners as the Port Authority's membership. The law also empowers and authorizes the Board of County Commissioners to levy and collect taxes within said port district; provides for the depositing of moneys of the Port Authority and for an annual budget of said authority; authorizes and provides for the issuance and sale of bonds by the Putnam County Port District; and, authorizes and provides for the levying and collection of taxes for the payment of said bonds and interest thereon. The Port Authority, per this law, shall have the powers necessary and proper, including the responsibility of formulating and carrying out plans for the long-range development of the facilities of ports within the district and traffic through the said ports. The current Port facility offers bulkhead dock space, enclosed lockable warehouse space with utilities, separated keyed office space, paved parking, and gated entry.

During the 2022 legislative session, the Florida Legislature added Port Putnam to the list of codified Florida Seaports (section 311.09, Florida Statutes) and the Florida Seaport Transportation and Economic Development Council contingent on the completion of a study establishing the economic, technical and operational viability of a port in Putnam County.

At the 2022 annual Florida Ports Council meeting, Port Putnam was elected into membership by the member ports.

1-4 PUBLIC INVOLVEMENT AND AGENCY COORDINATION

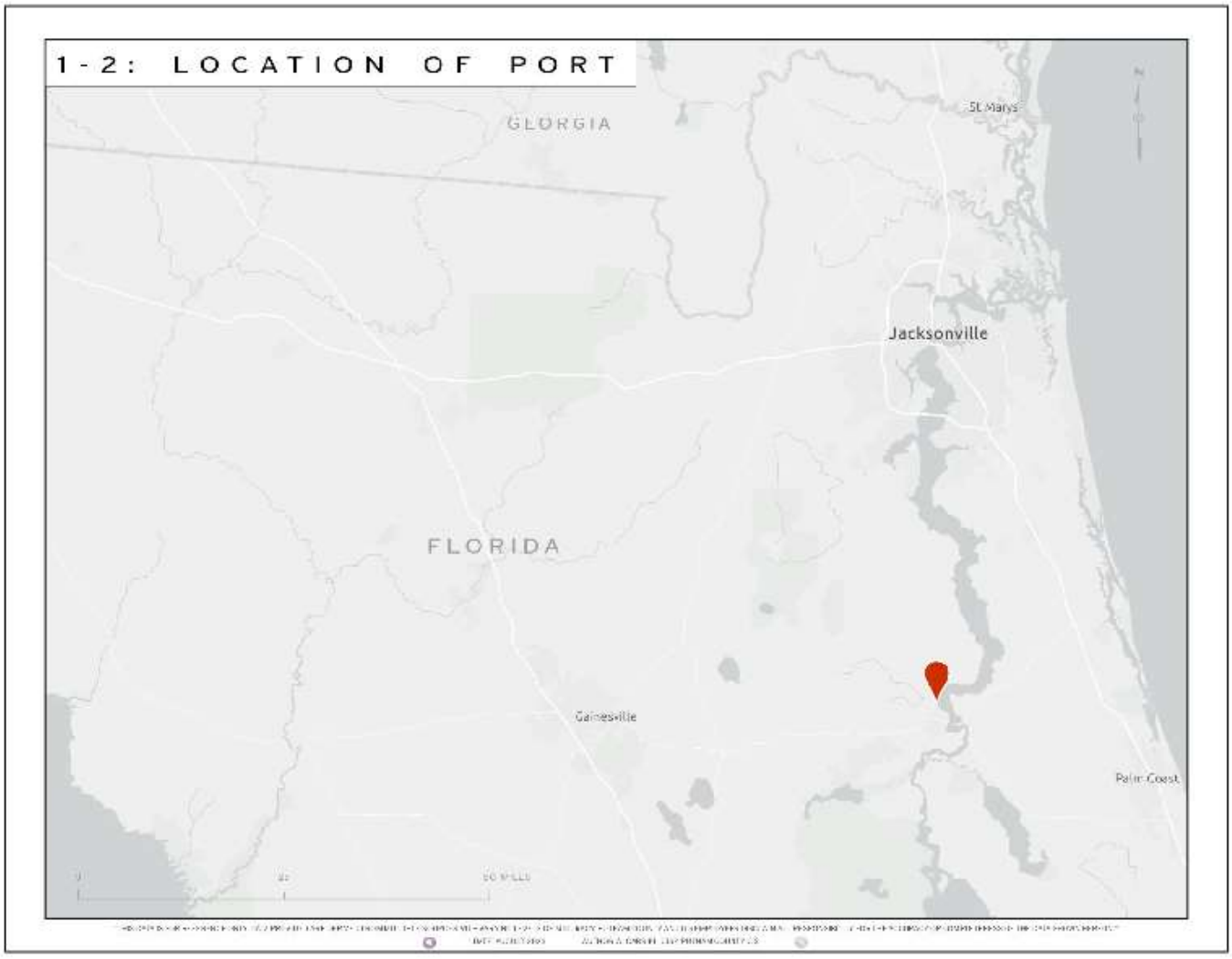
During the application process for the U.S. Department of Transportation's Maritime Administration Port Infrastructure Development grant, Putnam County staff held a public stakeholder meeting during which members of the business, industrial, commercial, and residential community shared their thoughts on the revitalization of the Port, the opportunities it would bring to them and to the local economy. Additional, in depth public shareholder meetings will be conducted upon execution of the grant agreement and release of funds to permit such events. Minutes of these future meetings will be included in the appendix section of updates to this Port Master Plan.

Future updates to the Port Master Plan will not only include the involvement of the community through multiple public stakeholder meetings, but also governmental and institutional partners including, but not exclusively, the Putnam County Port Authority, the Putnam County Board of County Commissioners, the Putnam County Chamber of Commerce, the United States Army Corps of Engineers, the Florida

Department of Transportation, the Florida Ports Council, the Florida Seaport Transportation and Economic Development Council, the United States Department of Transportation, and the Maritime Administration.

As required by Chapter 163, Florida Statutes, this Port Master Plan is consistent with the Putnam County Comprehensive Plan. This Port Master Plan was incorporated into the County's Comprehensive Plan by a vote of the Board of County Commissioners on October 10, 2023.

1-1: LOCATION OF PORT


1-2: LOCATION OF PORT
GEORGIA
St Marys
Jacksonville
FLORIDA
Gainesville
Palm Coast

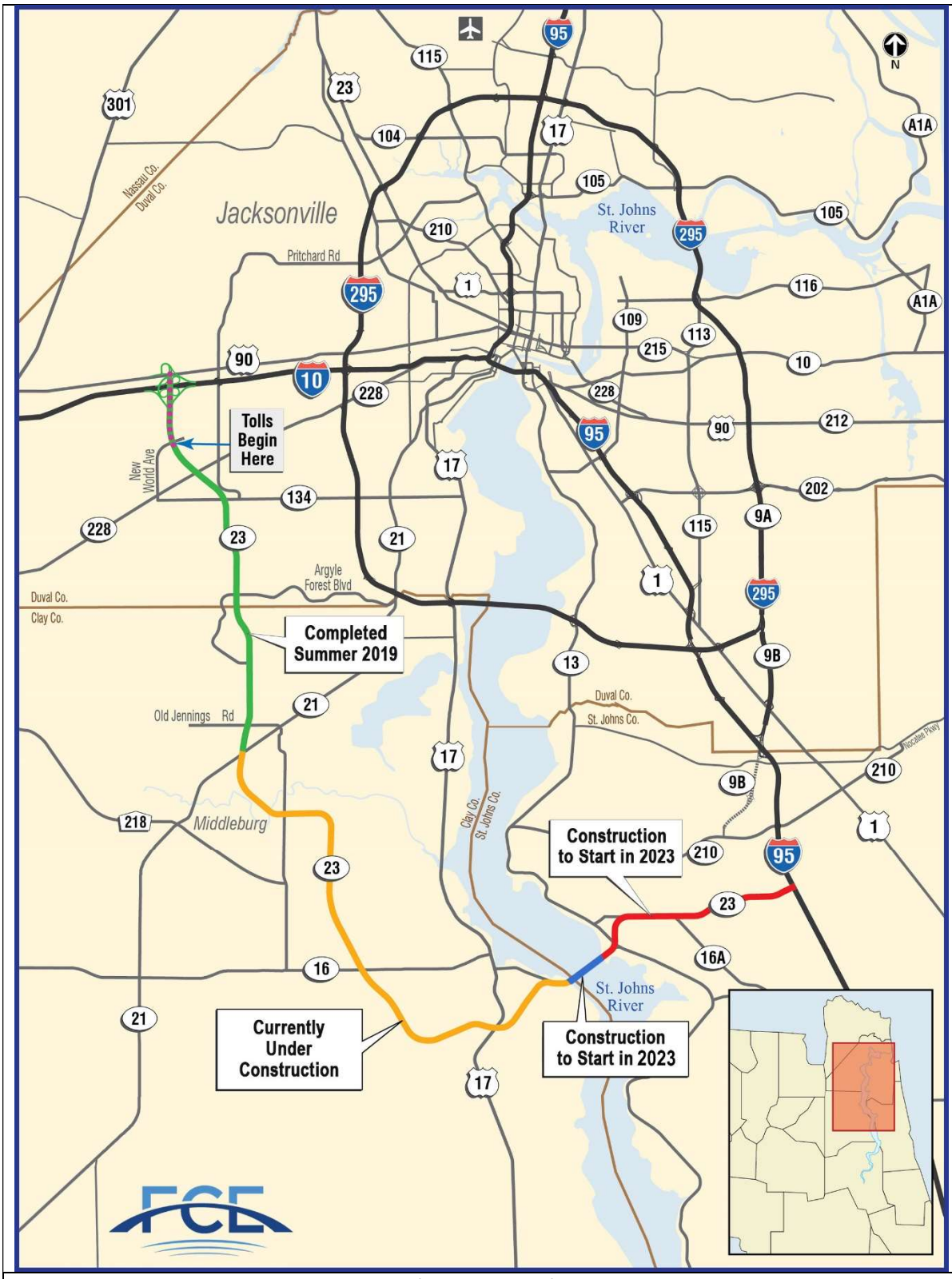


Figure 1-5: First Coast Expressway Project (source: FDOT)

CHAPTER TWO- EXISTING CONDITIONS AND FACILITIES

To handle anticipated vessels and accommodate anticipated cargoes, Port Putnam needs to offer its potential users the necessary resources. In this Chapter of the Port Master Plan, existing land uses and features will be reviewed including intermodal network possibilities, utilities, and environmental considerations near the Port. Also discussed will be the Port's plan in addressing man-made and natural hazards and/or disasters.

2-1 LAND USE

All seventeen acres of Port property, the Port facility and the Port Annex, are zoned for industrial use as required per the Putnam County Comprehensive Plan. Included are the current land use map (Figure 2-1) and future land use map (Figure 2-2) for Port Putnam and its surrounding area. The Port is surrounded by manufacturing and recycling businesses all zoned industrial: to the north, Veritas Steel an industrial bridge girder manufacturer and port stakeholder, and Forterra Pressure Pipe an industrial pipe manufacturer; to the west, Metallizing Technical Services a construction company, Caraustar Industrial and Consumer an industrial manufacturing company, and the main CSX rail line; to the south, unknown name gypsum recycler, and Holbrook Metal Fabrication a metal company; and, to the east, the St. John's River. As shown in the current and future land use maps, the Port and its surrounding areas are zoned for industrial use so all development in the area is consistent with its current and future intended use.

2-2 WATER USE

Water use in proximity of the Port is limited to recreational boating activities in and out of Crystal Cove Riverfront Park, a recreational and commercial enterprise located approximately three-quarters of a mile south of Port Putnam. Since vessels calling at Crystal Cove will navigate a different access channel from cargo vessels calling at Port Putnam, there are no anticipated conflicts between these uses.

2-3 EXISTING PORT INFRASTRUCTURE

Port Putnam has already several infrastructure elements in place to assist with its revitalization. Along the riverfront lies a 400 foot bulkhead constructed in 1961. With this length, the Port could accommodate two full sized barges at once. Adjacent to the bulkhead lies the Port's 31,000 square foot docking area also constructed in 1961. Also included inside the gated area is a 20,000 square foot enclosed warehouse with a joint keyed office space, and an access road to Comfort Road which connects the Port to US Highway 17. Outside the gated area lies a second 20,000 square foot enclosed warehouse. Across from Comfort Road is the Port Annex property, a 16 acre industrially zoned property that features prominently in the ports near and far future development.

2-4 INTERMODAL TRANSPORTATION NETWORK

Port Putnam is strategically positioned to provide a regional intermodal transportation hub. Located near a regional intermodal transportation system that serves the southwestern hinterland of Northeast Florida, Port can facilitate domestic and possibly international commerce with other Florida and Southeastern U.S. markets. Port Putnam and Florida Department of Transportation's District 2 are working together to facilitate freight interests in the region.

Putnam County currently owns a spur off the main CSX line which services Veritas Steel, the Port's direct neighbor to the north. A tangent spur off said spur once served the Port directly but has since been disabled. Either that spur can be restored or new spurs can be constructed onto the Port Annex property (Figure 2-3).

Port Putnam is located 0.6 miles from U.S. Highway 17, a main thoroughfare connecting Jacksonville and Orlando regionally and many more markets nationally. The connection to U.S. Highway 17 is completed driving on Comfort Road, a county maintained road designated for industrial traffic. (Figure 2-4)

The Palatka Municipal Airport is under consideration for a Florida Department of Transportation $10 million runway extension project which would allow larger aircraft, including full sized cargo transports, to land. This facility is located 3.5 miles from Port Putnam enabling it to be a component in the regional intermodal transportation hub (Figure 2-5).

The U.S. Army Corps of Engineers has been studying the possibility of dredging an access channel to Port Putnam for years and is nearing submission of its Tentatively Selected Plan to headquarters. This channel would permit cargo vessels with a draft of 10 feet or less to make call at the Port (Figure 2-6).

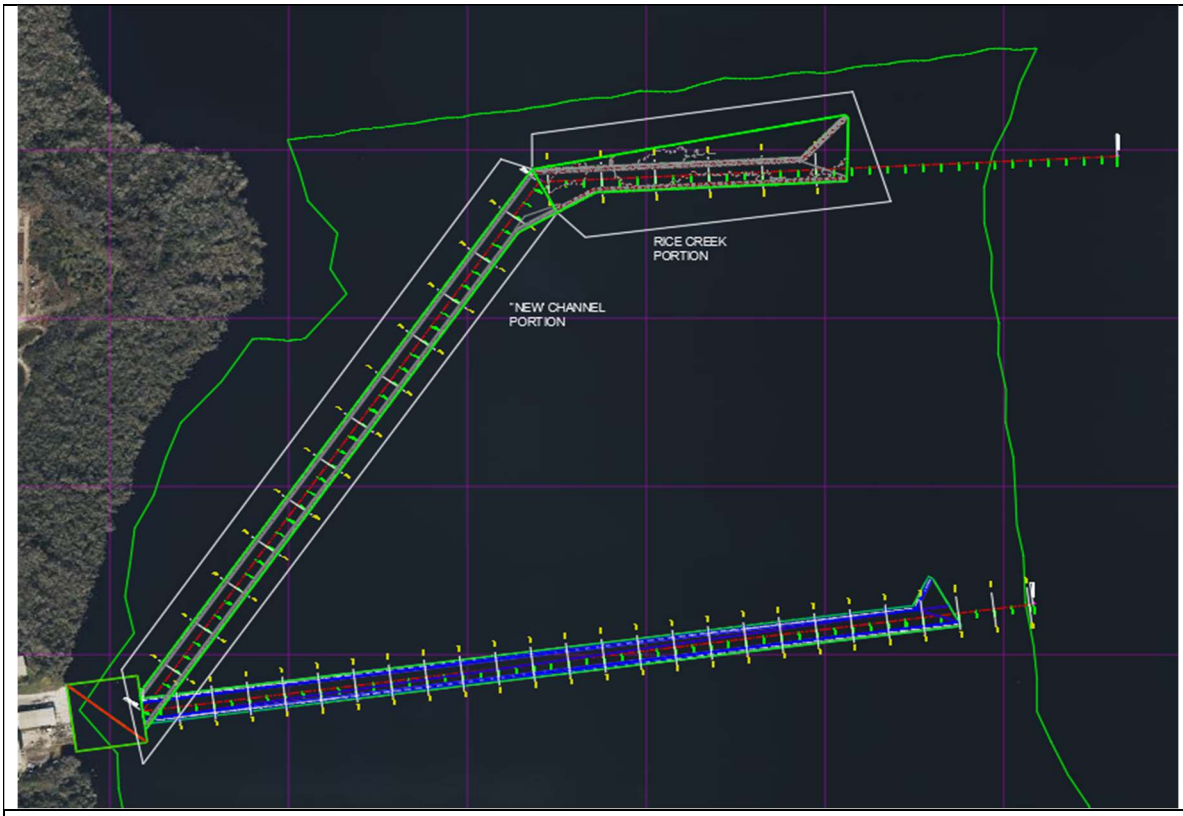


Figure 2-6: Channel Design (Source: U.S. Army Corps of Engineers, Jacksonville Office)

The current and near future road, rail and water access to Port Putnam provide the footprint for a regional intermodal freight transportation system (Figure 2-7).

2-4.1 Roadway System

Port Access

Port Putnam and the Port Annex are directly connected to U.S. Highway 17 with Comfort Road, a county maintained road designed for industrial and commercial traffic. Traffic can either travel north or south on Comfort Road to reach U.S. Highway 17.

Regional Highway Access

The primary roads providing highway access to Port Putnam are U.S. Highway 17, State Road 19, State Road 20, State Road 207, and State Road 100.

- U.S. Highway 17 is a four lane highway, sometimes divided, travels through Putnam County from north to south and connects directly to the Port through Comfort Road, a county maintained road designated for industrial traffic. U.S. Highway becomes a two lane highway as it meanders through southern Putnam County. U.S. Highway 17 connects Putnam County regionally to Jacksonville and eastern Orlando, and, nationally, as far as Punta Gorda, FL and Winchester, VA. U.S. Highway 17 also connects Putnam County to Interstate 95 and Interstate 10.
- State Road 19 is a two lane highway, except for its crossing of Palatka's urban fringe, connecting Palatka to Groveland, a western suburb or Orlando, as well as the Florida Turnpike.
- State Road 20 is a four lane highway connecting Palatka to Gainesville and Interstate 75.
- State Road 207 is a four lane highway connecting Palatka to St. Augustine and Interstate 95.
- State Road 100 is a two lane highway traveling from Flagler Beach to the Georgia line just southeast of Valdosta, GA. It provides Port Putnam with a road connector to regional markets such as Lake City, Starke, Bunnell and Flagler Beach.

As the Port revitalization process progresses, discussion will be undertaken with the Florida Department of Transportation to consider inclusion of some, or all, of these key highways into its Strategic Intermodal System (SIS).

2-4.2 Rail Network

Port Access

Current access from the Port area to the main CSX line is limited to a county owned spur that connects the Veritas Steel plant to the CSX line that services Jacksonville, Orlando and Tampa. There also exists remnants of an adjacent spur that connected directly to the port property; however, that would require some reconnecting and construction in order to be functional again.

Regional Access

The Port Annex, the port property across Comfort Road from Port Putnam, is adjacent to the main CSX line that connects Jacksonville to Orlando and Tampa. This line provides both passenger and freight rail service to the region and onwards to the nation. Its proximity to Port Putnam provides an invaluable opportunity to develop a rail component to the Port's intermodal freight transportation system.

Potential Access

With the Port Annex property sharing 800 feet with the CSX rail easement that houses its main line between Jacksonville and Orlando, there is a unique opportunity to construct a rail spur directly off the main line onto the Port Annex enabling construction of a cargo suitable rail loading and unloading facility. This would cement the rail component to the Port's intermodal freight transportation system.

2-4.3 Airport

The Palatka Municipal Airport is located 3.6 miles southwest of Port Putnam. The airport's longest runway currently measures 6,003 feet which can accommodate smaller cargo aircraft but not the larger ones; however, the Florida Department of Transportation is considering a $10 million runway extension project for the facility which would enable the accommodating of larger cargo aircraft (Figure 2-8).

The airport is connected to Port Putnam by County Road 216, U.S. Highway 17 and Comfort Road. These highways are all designated for multiple traffic use, including industrial and cargo traffic. The ease of transportation of cargo along this route can enable adding an air component to the Port's intermodal freight transportation system.

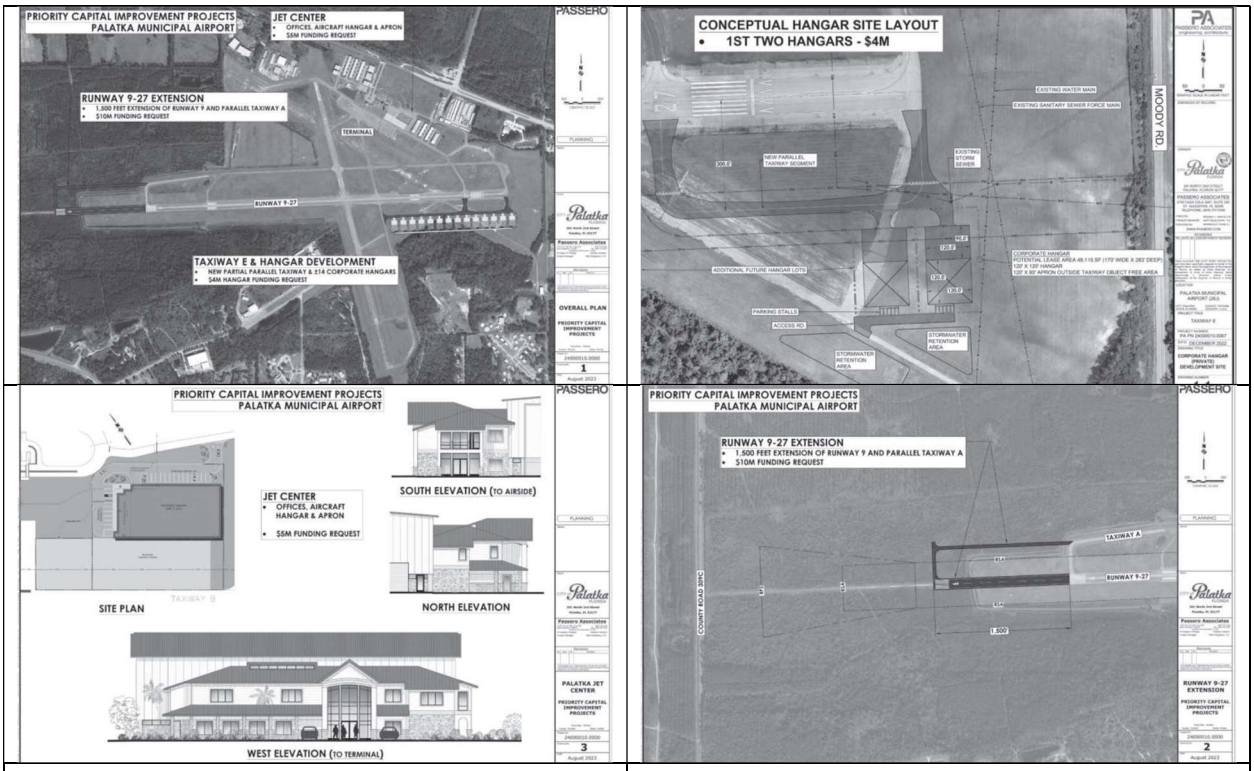


Figure 2-8: Municipal Airport Expansion | Photos: Matt Singletary, Passero Associates

2-4.4 Water Access

Current water access to Port Putnam is limited due to the accumulation of silt over time along possible access channels. Once the U.S. Army Corps of Engineers Cap 107 Tentatively Selected Plan is approved, then dredging of a 12 foot channel will be underway to create a navigable waterway from the Federal Channel to Port Putnam (Figure 2-6). Dredging this channel will enable cargo vessel access to the Port.

Once access is established and the Shands Bridge is elevated to a 65 foot air draft through its replacement as part of the First Coast Expressway project, large jumbo hopper barges and other large capacity shallow draft cargo vessels will be able to call at Port Putnam.

2-5 UTILITIES

2-5.1 Water

The City of Palatka provides potable water to the businesses along Comfort Road including Port Putnam. As the grant funded Port Development Plan nears its completion, consultation will be undertaken with the City of Palatka to ensure that there is sufficient capacity and pressure to handle the anticipated demands of an active and expanded Port operation.

2-5.2 Wastewater

The City of Palatka provides waste water to the businesses along Comfort Road including Port Putnam. As the grant funded Port Development Plan nears its completion, consultation will be undertaken with the City of Palatka to ensure that there is sufficient capacity and pressure to handle the anticipated demands of an active and expanded Port operation.

2-5.3 Stormwater and Drainage facilities

Port Putnam is serviced by drainage swales to haul precipitation and excess water to designated receiving ponds. Any additional stormwater facilities would be constructed in accordance with St. Johns River Water Management District standards and permitted through this agency.

2-5.4 Solid Waste

Contracted Solid Waste collection and hauling is available to Port Putnam and its tenants. All traditional solid waste is hauled off to the State permitted Putnam County Landfill and disposed of for a fee.

Hazardous and industrial waste is to be handled by the individual generator, hauled off by a contractor licensed to transport the specific waste and disposed of at a governmental licensed facility authorized for the final disposal of the specific waste.

2-5.5 Energy

Duke Energy provides electrical service to the properties along Comfort Road including Port Putnam and the Port Annex. As the grant funded Port Development Plan nears its completion, consultation will be undertaken with Duke Energy to ensure that there is sufficient capacity in the system to handle the anticipated demands of an expanded and active Port operation.

There is no gas service at Port Putnam.

2-6 SECURITY

Security plan must comply with the nation’s seaport security standards established by the Department of Homeland Security and the United States Coast Guard, including possible restricted access areas and establishing mandated permitting requirements to enter restricted areas. This process could include background checks and credentialing for those employed at Port Putnam or those accessing the Port

property on a regular basis. Security plan will be tailored to specific cargo types and operational requirements of the Port.

2-7 NATURAL AND MAN-MADE DISASTER PLANNING

Port Putnam will establish policies and procedures to address disasters, natural or man-made, upon their possible occurrence

2-7.1 Coastal Flooding

Port Putnam will implement a plan of action based upon the findings of the Putnam County Resiliency and Vulnerability Assessment.

2-7.2 Coastal High Hazard Area

Port Putnam will implement a plan of action based upon the findings of the Putnam County Resiliency and Vulnerability Assessment.

2-7.3 Hurricane Evacuation Plan

Currently there is no set evacuation plan for the Port and its surrounding areas. Current plan involves knowing the property's evacuation zone, heeding the advice of the Putnam County's Director of Emergency Management in times of emergencies, and utilizing the appropriate evacuation route and direction (Figure 2-9).

Port Putnam will develop a hurricane evacuation plan in accordance with Putnam County's Director of Emergency Management's direction that will incorporate:

- Relocation of waterborne vessels to safe harbor
- Maintenance of communication with proper authorities
- Shutting down and securing facility
- Removing and/or securing objects from Port area
- Coordinating evacuation and return plans with all tenants

2-7.4 Man-made disasters

Policies established to dictate handling, storage and cleanup of all hazardous materials. Policies to be established in cooperation with the Putnam County Fire Marshall and the Putnam County Emergency Director. In case situation is declared a crime scene, policy will be to follow the directives of the Law Enforcement Agency in charge of the situation.

2-8 PUBLIC ACCESS FACILITIES

All Port facilities are industrial in nature; therefore public access is prohibited.

2-9 HISTORICAL RESOURCES

Consultation with the State Historical Preservation Office will be conducted to indicate if any historical or archeological resources exist within the Port properties.

2-10 ECOLOGICAL AND ENVIRONMENTAL CONDITIONS

2-10.1 Site Specific Environmental Conditions

A full environmental study will be conducted as part of the Maritime Administration partially funded Port Infrastructure Development grants' Port Putnam Development Plan. A Level II environmental study of the Port Annex was conducted in 2023 (see Appendix C)

2-10.2 Flora and Fauna

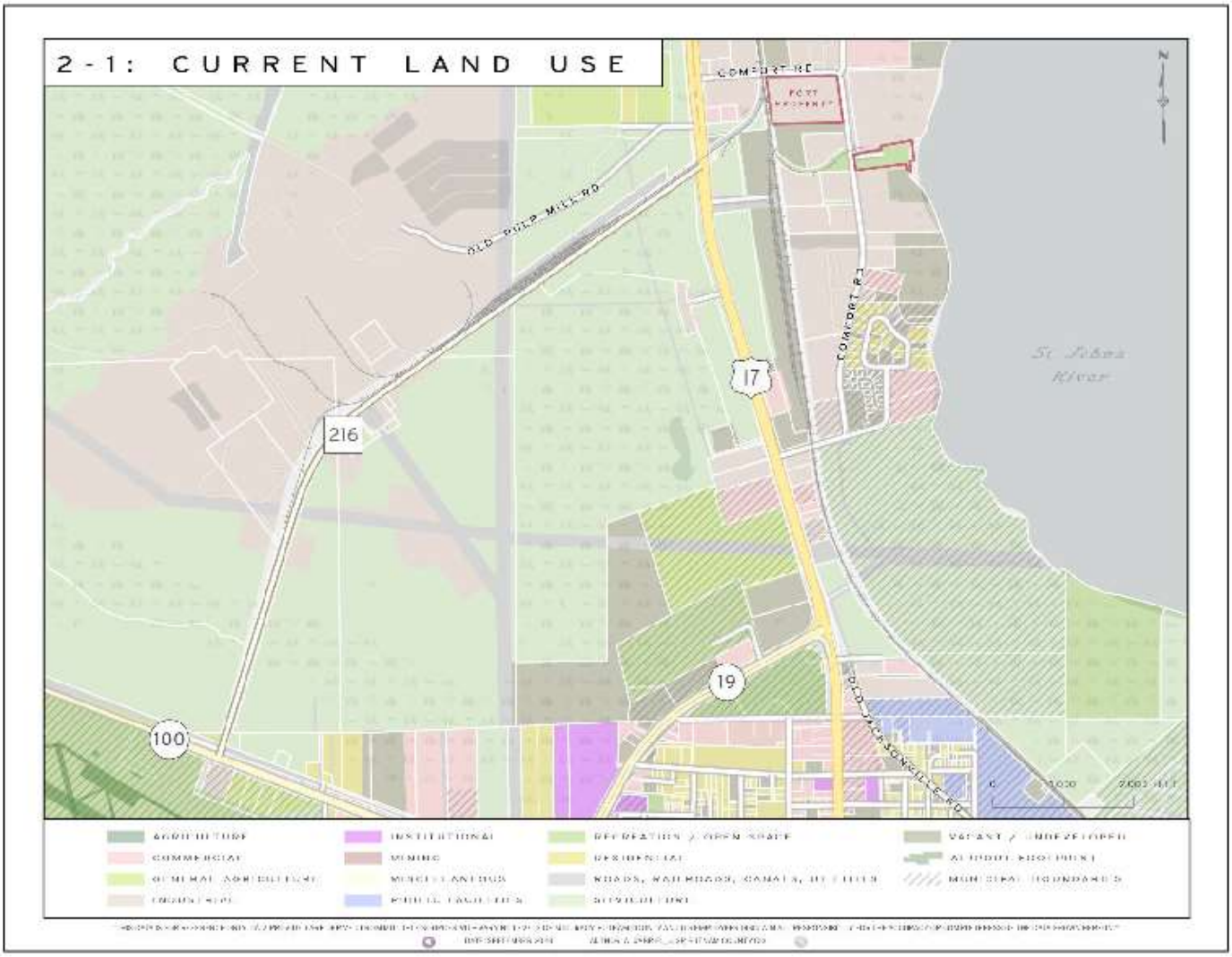
All parcels composing the Port properties have been involved in prior industrial activity therefore animal activity as a whole should be limited. However, the Maritime Administration partially funded Port Infrastructure Development grants' Port Putnam Development Plan will determine if rare, threatened or endangered flora or fauna is affected by the Ports' operations on land or water.

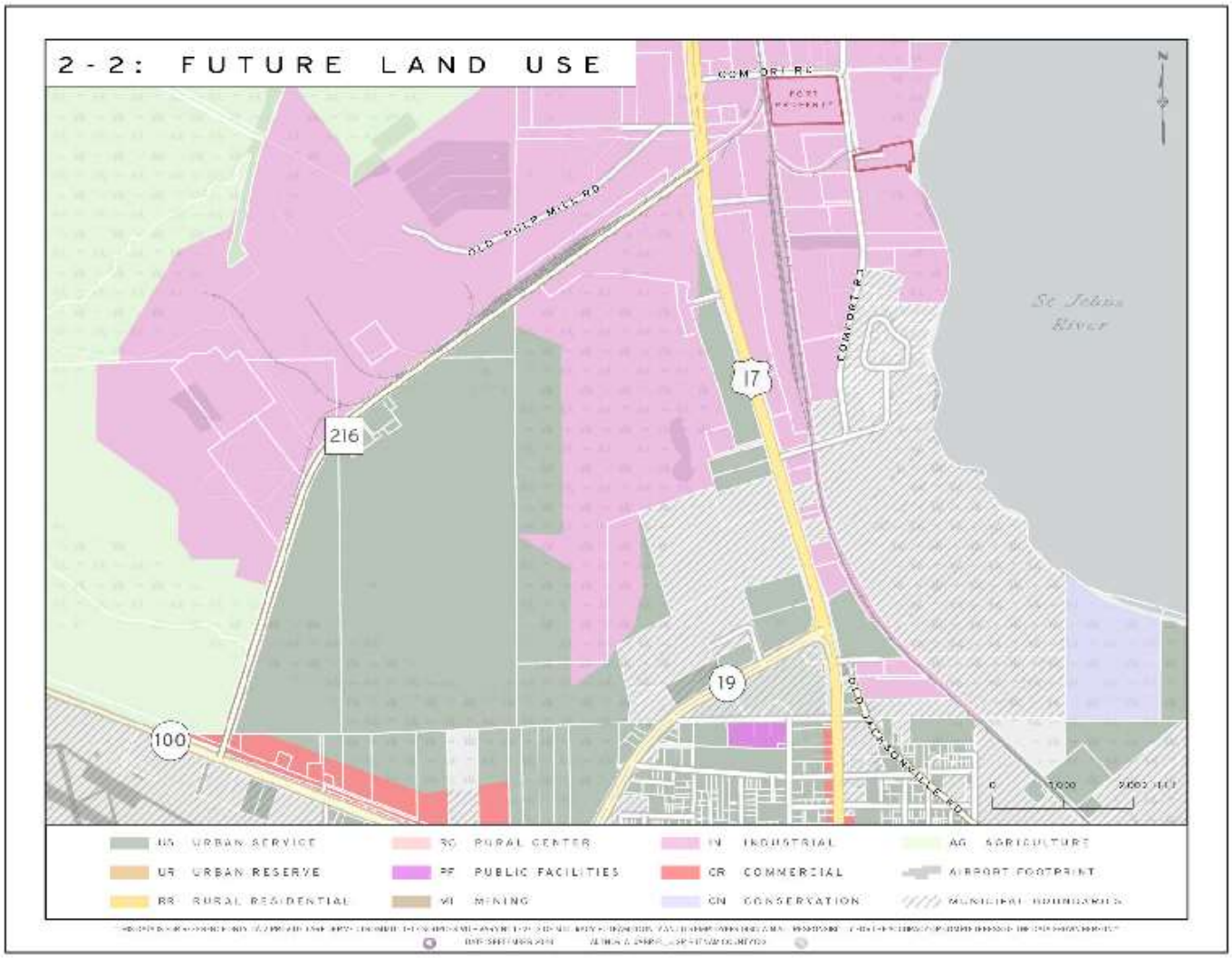
2-10.3 Topography

A topographical survey of the properties will be conducted as part of the Maritime Administration's partially funded Port Infrastructure Development grants' Port Putnam Development Plan.

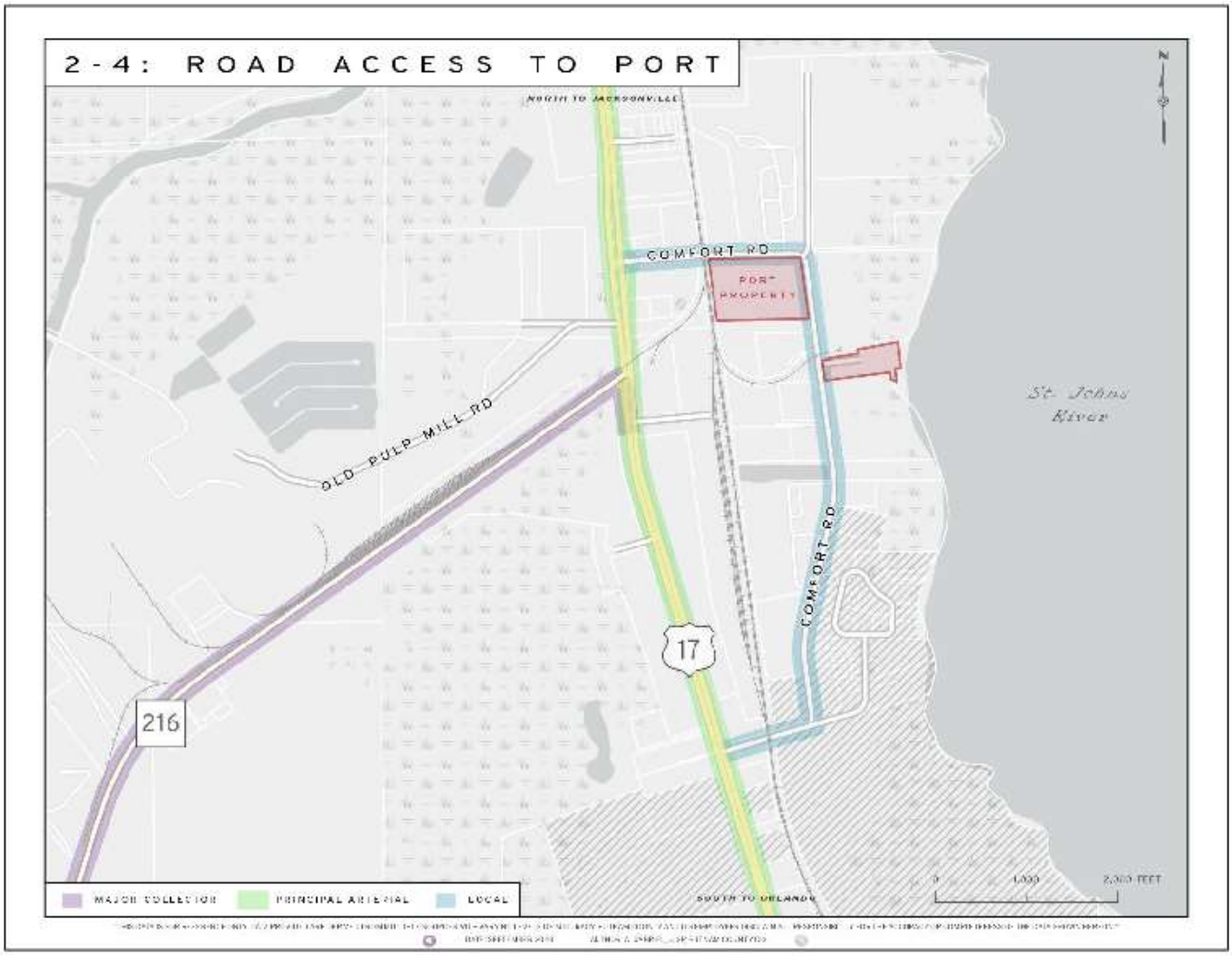
2-10.4 Wetlands

The State of Florida defines Wetlands as those areas that are inundated or saturated by surface water or ground water at a frequency and a duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soils. Soils present in wetlands generally are classified as hydric or alluvial, or possess characteristics that are associated with reducing soil conditions. The Maritime Administration's partially funded Port Infrastructure Development grant's Port Putnam Development Plan will include a full environmental study that includes a look at all nearby wetlands.

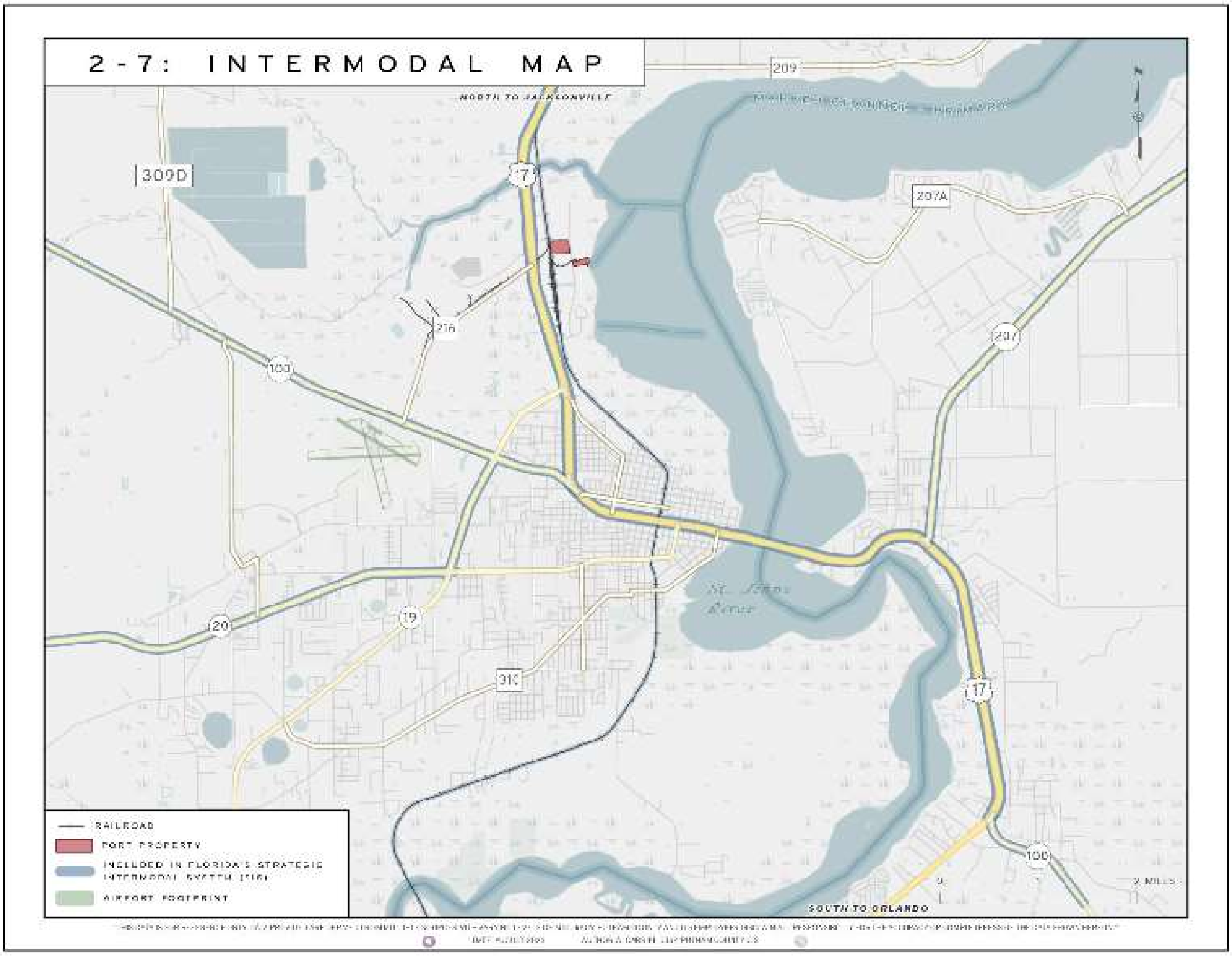

2-1: CURRENT LAND USE
COMFORT RD
OLD PULP MILL RD
COMFORT RD
St Johns River
17
216
19
100
OLD JACKSONVILLE RD
AGRICULTURE
COMMERCIAL
GENERAL AGRICULTURE
INSTITUTIONAL
MINING
MUNICIPAL LANDS
PUBLIC FACILITIES
RECREATION / OPEN SPACE
RESIDENTIAL
ROADS, RAILROADS, CANALS, ETC / OTHER
SERVICE / ENT
VACANT / UNDEVELOPED
WETLANDS
MUNICIPAL BOUNDARIES


2 - 2: FUTURE LAND USE
OLD POLK MILL RD
COMFORT RD
St Johns River
17
216
19
100
US URBAN SERVICE
UR URBAN RESERVE
RR RURAL RESIDENTIAL
RC RURAL CENTER
PF PUBLIC FACILITIES
MI MINING
IN INDUSTRIAL
CR COMMERCIAL
CN CONSERVATION
AG AGRICULTURE
AIRPORT FOOTPRINT


2-3: SPUR OPTIONS
17
COMFORT RD
NORTHPOINT RD
PORT PROPERTY
DEAL
MCCULLOUGH LN
CURRENT
PROPOSED
216
SEABOARD RD
COMFORT RD
0
250
500 FEET


2-4: ROAD ACCESS TO PORT
NORTH TO JACKSONVILLE
COMFORT RD
PORT PROPERTY
OLD PULP MILL RD
St. Johns River
COMFORT RD
17
216
MAJOR COLLECTOR
PRINCIPAL ARTERIAL
LOCAL
SOUTH TO ORLANDO
0
1,000
2,000 FEET


2-5: AIRPORT TO PORT
216
17
100
19
PORT PROPERTY
AIRPORT FOOTPRINT
AIRPORT TO PORT ROUTE
APPROXIMATELY 3.5 MILES
AIRPORT TO PORT ROUTE (ALT.)
APPROXIMATELY 3.9 MILES


2-7: INTERMODAL MAP
NORTH TO JACKSONVILLE
209
309D
17
207A
216
207
100
20
19
310
17
100
St. Johns River
SOUTH TO ORLANDO
RAILROAD
PORT PROPERTY
INCLUDED IN FLORIDA'S STRATEGIC INTERMODAL SYSTEM (SIS)
AIRPORT FOOTPRINT
2 MILES


2-9: HURRICANE EVACUATION PLAN
COMFORT RD
PORT PROPERTY
OLD PULP MILL RD
COMFORT RD
St. Johns River
17
216
19
EVACUATION ZONES AND ROUTES
EVACUATION ROUTES
N

CHAPTER THREE- MARKET ASSESSMENT

This chapter establishes the Port's development program by documenting the region's socio-economic environment and assessing market opportunities.

3-1 LOCAL AND REGIONAL SOCIO-ECONOMIC CHARACTERISTICS

Planning for the Port's future opportunities, the characteristics of the local community and the Northeast Florida region must be considered along with the Port's far reaching hinterland.

3-1.1 Northeast Florida

Northeast Florida is composed of the following counties: Baker, Clay, Duval, Flagler, Nassau, Putnam and St. Johns. The region is a combination of rural and urban areas. A complete socio-economic analysis of the region will be conducted as part of the Port Development Plan.

3-1.2 Putnam County

Putnam County is located in Northeast Florida. According to the U.S. Census Bureau, Putnam County has a population of 74,731 and a per capita income of $22,814 and 26.3% of the population living below the poverty level. Principal industries are manufacturing and agricultural. A complete socio-economic analysis of Putnam County will be conducted as part of the Port Development Plan.

3-2 Market Assessment

The Port Development Plan, partially funded through a grant provided by the U.S. Department of Transportation's Maritime Administration, will provide an in-depth, detailed, and complete market assessment of the present and future port opportunities. The following industries have expressed or shown a stake in the revitalization of Port Putnam.

3-2.1 Shipbuilding and repair

Several companies build and/or repair ships in Putnam County. Current Port tenant Victoria Marine constructs custom passenger vessels for, among others, entertainment companies. They, as well as other locally based shipbuilding companies will be able to bid on contracts for larger vessels once the Shands Bridge air draft is elevated from 45 to 65 feet as part of the First Coast Expressway. Furthermore, companies in the business of repairing waterborne vessels will be able to bid for contracts working on ships calling at Port Putnam.

3-2.2 Automotive parts

Beck Automotive, the premier automotive company in Putnam County, includes a division which is one of the largest automotive parts distributors in the Southeastern United States. The ability to import and export on waterborne vessels has been expressed as most desirable for them as it would enable them to expand their operation resulting in an increase of well-paying jobs within their local corporation.

3-2.3 Aggregate

Certainteed, a subsidiary of Saint Gobain an international construction company based out of France, just committed a sizeable monetary investment designated to double their gypsum manufacturing at their Putnam County plant located 5 miles north of Port Putnam along U.S. Highway 17. Their current

operation consists of importing gypsum to JaxPort and then shipping it 50 miles to the plant. Their expressed desired operation would consist of importing gypsum to JaxPort, transferring it to barge and shipping it along the St John's River to Port Putnam where it would be loaded onto trucks for a shorter road journey to the plant. This cargo transport reconfiguration not only meets the U.S. Department of Transportation's goals regarding reducing cargo transport by road, but also their parent company's goal of constructing a more sustainable future.

3-2.4 Bridge Construction and components

Veritas Steel, the Port's neighbor to the north, is the nation's leader in structural steel bridge fabrication. Their ability to bid on projects nationwide is limited on the size of components they can ship out of their plant in Putnam County. Currently, final components for their projects must be able to be transported either by rail cart or road. Once the Port is able to accommodate heavy cargo following the dredging of the access channel by the U.S. Army Corps of Engineers, Veritas Steel will be able to bid on projects involving larger components than they currently can which could lead to an increase in their local operation resulting in an increase of well-paying jobs at their Putnam County facility.

3-2.5 Break bulk cargo

With a 16 acre Port Annex with malleable facilities, a new bulkhead, and a new docking area, Port Putnam will be able to handle break bulk cargo and store it on its Port Annex property. This could expand the type and volume of cargo shipping through Putnam County's intermodal transport facility, resulting on new and yet unidentified customers for Port Putnam.

3-2.6 Secondary Port Opportunities

With two enclosed and lockable 20,000 square foot warehouse, Port Putnam already has appealing storage and/or leasable space for interested parties. The Port Development Plan will identify what structures should be erected, retrofit, or remodeled on the Port Annex property to provide additional storage and leasable space for shippers, importers and exporters.

CHAPTER FOUR- 5 AND 10 YEAR EXPANSION PLAN

The objective of this Chapter is to anticipate and plan for investments of funds necessary to develop the Port and ensure its long term success. The Putnam County Port Authority's areas of responsibility in regards to infrastructure improvements at Port Putnam are the property it owns and may purchase or lease, and the restoration of the access channel to navigable depths. Putnam County is also about to develop a partially federally funded Port Development Plan which will expand on the 2023 Port Master Plan.

4-1 PORT DEVELOPMENT FOR TARGET MARKETS

Cargo based market opportunities addressed in Chapter 3 of the Port Putnam Master Plan must be able to be transported by shallow draft vessels including, non-exclusively, hopper barges. Channel access to the Port is planned to be at a depth of no more than twelve (12) feet.

4-1.1 Short Term Plan: Years 1 to 5

4-1.1.1 Dredging

The top priority for Port Putnam is to continue working in conjunction with the U.S. Army Corps of Engineers to assist them in successfully submitting a Tentatively Selected Plan to their headquarters in March 2024. The current access to the Port has been affected over years of silt deposits reducing channel draft to an estimated five (5) feet. It is essential for full commercial cargo operations to take place at the Port for the access channel to be of a depth of twelve (12) feet. Putnam County will assist the U.S. Army Corps of Engineers to determine that the dredging project meets the National Economic Development (hereafter NED) standards as defined by Senate Document 97.

Once dredging has been approved, Port Putnam will work with its local partners and the U.S. Army Corps of Engineers to establish a fiscally sound protocol to remove, haul and dispose of dredging materials excavated during the dredging process.

Upon completion of the U.S. Army Corps of Engineers' dredging project, a cargo vessel navigable channel and turnaround basin (Figure 2-7) will have been established at Port Putnam allowing for the transport of commercial and industrial goods to and from Putnam County and its neighbors on waterborne vessels.

4-1.1.2 Port Infrastructure

The current bulkhead and docking area at Port Putnam was constructed in 1961. Considering the age of both infrastructure components and that the expected lifespan for such structures when used and maintained is seventy-five (75) years, the Port will require replacements for them. A structural study of both the bulkhead and the docking area is a component of the partially federally funded Port Development Plan which, upon its completion, will provide Port Putnam with precise guidance on how to handle, upgrade and replace its current infrastructure.

Furthermore, the depth of the current bulkhead and the weight handling capability of the docking area are unknown and could be determined during the work associated with the completion of the Port Development Plan.

Finally, a large non-functional level luffing crane needs to be removed from the property which will expand the cargo accepting dockage area at Port Putnam. Projection is that future cargo handling will be performed with mobile crane and other mobile equipment.

4-1.2 Long term: 6 to 10 years

It is currently estimated that both the channel dredging and the improvements to current port infrastructure will be completed in the next five (5) years.

4-1.2.1 Port Infrastructure

The warehouses at Port Putnam were constructed in 1970 and will likely be found, in the Port Development Plan, to be in need of refurbishing. Additionally, should the disabled rail spur directly accessing the port property be revitalized, then structural changes would need to be performed at the warehouse inside the port enclosure in order to allow rail cart loading and unloading (see Section 4-3.6.2 of the Port Master Plan).

Upon completion of the Port Development Plan and opening of Port Putnam for cargo business, Port security needs will be known. These needs will be based on direction and regulations from both the Department of Homeland Security and the United States Coast Guard. These needs could range from video security systems to secured cargo areas and customs stations.

4-1.2.2 Port Annex

The Port Annex is the 16 acre Port property across Comfort Road from Port Putnam. One of the outcomes of the Port Development Plan will be how to remodel and refurbish this property and its edifices in order to best accommodate the established and anticipated cargo and transportation needs for Port Putnam.

This property is also adjacent to the main CSX line connecting Jacksonville to Orlando. This fact makes it a prime candidate for constructing a new spur to facilitate the loading and unloading of cargo onto/off rail carts. Other current rail options are using the County owned rail spur that services Veritas Steel or revitalizing the rail spur that once serviced Port Putnam; however, neither option allows for the loading or unloading of multiple rail carts at the same time. Discussion with CSX needs to commence in order to evaluate the feasibility of all these options.

4-2 DEVELOPMENT COSTS AND IMPACTS

4-2.1 Dredging costs

Costs to complete the dredging are still being determined by engineers at the U.S. Army Corps of Engineers. Current volume estimate to be dredging following the access channel as designed in Figure 2-6 would amount to 37,674 cubic yards (Figure 4-1) which is considerably less than the estimated 200,000 cubic yard with the original channel design.

Figure 4-1- Northeast Approach (OPTION 2)			
Depth (ft)	Rice Creek Portion	"New" Channel Portion	Total Vol
9	0	1,128	1,128
10	1,186	5,405	6,591
11	7,745	12,039	19,784
12	15,994	21,680	37,674
13	24,993	35,692	60,685
14	34,446	52,998	87,444

4-2.2 Infrastructure Costs

4-2.2.1 Port Putnam Improvements

It has been determined in this Port Master Plan and will be confirmed in the Port Development Plan, that the current bulkhead needs to be replaced and the dockage area refurbished to handle heavy cargo. These costs, including refurbishing the road way and additional constructed surface area all the way to the port gate, are shown in Figure 4-2 below.

Additional costs will be identified by the security needs as dictated by the Department of Homeland Security and the United States Coast Guard and have yet to be determined.

Project	area	cost per ft/ cost per cu yd	total
Bulkhead replacement	400.00		
demolition		$700.00	$280,000.00
construction		$2,000.00	$800,000.00
Dockage resurfacing			
Phase I- along port	2,223.00		
demolition	20,000.00	$30.00	$600,000.00
construction		$300.00	$666,900.00
Phase II- along warehouse	2,445.00		
demolition	22,000.00	$30.00	$660,000.00
construction		$300.00	$733,500.00
Phase III- rest of Port Rd to Comfort Rd	1,289.00		
demolition	11,600.00	$30.00	$348,000.00
construction		$300.00	$386,700.00
			Total
	Bulkhead only	**$1,080,000.00**	**$4,475,100.00**

4-2.2.2 Port Annex

Costs associated with refurbishing, remodeling and construction at the Port Annex are still to be determined and should be identified and configured as a result of the Port Development Plan. However, some of the possible work to be performed on the property to facilitate established and anticipated cargo has been identified.

Besides current port annex infrastructure requiring remodeling and/or refurbishing to accommodate cargo, a rail spur could possibly be constructed connecting the facility to the main CSX rail line. This spur could be designed to accommodate loading and unloading multiple rail carts simultaneously.

Finally, the Department of Homeland Security and/or the United States Coast Guard could require security upgrades to the Port Annex facility dependent on the cargo types handled there.

4-2.3 Economic Impacts

Waterborne activity will provide a boost and positively impact the local and regional economy, allowing local manufacturers to import raw materials and export finished goods in greater volume and/or size, resulting in enlarged operations requiring additional staff.

4-2.3.1 Business Revenue

An operational Port will allow current businesses to expand their operation, possible increase their footprint, increase employment at current businesses, and entice businesses to relocate their operations to Putnam County. The combination of which will result in greater property tax revenue, increase in well-paying jobs in the community, and increase in money spent in local businesses from resident and transient customers.

4-2.3.2 Employment impact

Port operations are expected to have a direct, induced and indirect impact on local employment.

Direct employment impact: jobs will be generated by the movement of cargo through the port. The Port Development Plan will assist in determining the number of such jobs.

Induced employment impact: (i) jobs created by current businesses expanding thanks to the opportunities arisen through port activity; (ii) jobs created through the local economy because port employees and those who hold jobs in businesses that expanded will spend money locally on goods and services- these additional jobs will also be held by local residents.

Indirect employment impact: created locally by firms including, but not exclusively, office supply firms, maintenance and repair companies, parts and equipment businesses, and marine construction and repair shops.

4-2.3.3 Tax Impacts

Federal, State and Local tax impacts are tax payments to State, Federal and Local governments by firms benefiting directly or indirectly from Port activity, and individuals employed directly or indirectly by the Port.

4-2.3.4 Construction impacts

Development of the Port and the Port Annex will result in beneficial economic impacts for the local construction industry.

4-3 IMPACT ASSESSMENT

Land use of the Port, its adjacent properties, environmental resources, utilities, external transportation network and other possible impacts are covered in Chapter 2 of this Port Master Plan. Below is a summarization of anticipated impacts of the five (5) and ten (10) year development plans.

4-3.1 Land Use

The designated land use in the County's Comprehensive Plan for both the Port facility and the Port Annex is currently industrial. The planned Port development is compatible with this designation.

4-3.2 Public Access

Port operations will consist primarily of heavy industrial activities; therefore, public access is neither desired nor safe. Furthermore, potential security measures will require that parts or all of the Port be designated as a restricted area so any public access will need to be strictly controlled.

4-3.3 Historic Resources

Consultation with the State Historic Preservation Office will be conducted during the completion of the Maritime Administration partially funded Port Development Plan.

4-3.4 Environmental Resources

Port development will occur on lands zoned for industrial use and previously impacted by industrial operations. As a result, potential environmental impacts are expected to be minor. The Maritime Administration partially funded Port Development Plan includes performance of a preliminary environmental assessment to identify the appropriate NEPA (National Environmental Policy Act) document.

4-3.5 Utilities

Current levels of service are not exceeded and a concurrency evaluation will be completed prior to any and each expansion to ensure future developments will not negatively impact utilities. This would be achieved by requesting capacity statements from utility providers.

4-3.5.1 Sanitary Sewer

City of Palatka provides sewage services to Port Putnam. It is constructed to service customers along Comfort Road. Development of the facilities should not impact sewer services.

4-3.5.2 Potable water

Current water system is operated by the City of Palatka. It is constructed to service customers along Comfort Road including the Port and the Port Annex. Development of the facilities should not impact water service.

4-3.5.3 Energy

Duke Energy provides electrical service to the area; there is no gas service provided. The current grid is established to service industrial customers. Development of the Port and the Port Annex should constitute no impact to electrical power in the area.

4-3.5.4 Solid Waste

There should be no handling or hauling problems in disposing of the additional solid waste generated by developing the Port and the Port Annex.

4-3.6 External Transportation Network

Current levels of service are not exceeded and a concurrency evaluation will be completed prior to any and each expansion to ensure future developments will not negatively impact affected elements of the transportation network. This would be achieved by conducting traffic studies for the appropriate transportation element(s).

4-3.6.1 Roads

All roads serving the Port facilities are designated for industrial traffic and operating at or below expected level of service. Anticipated port operations and transportation of cargo should not add significant volume of traffic to local roads.

4-3.6.2 Rail

There is no current rail service at the Port facilities; however, a County owned rail spur provides rail service to Veritas Steel, the neighbor directly to the north of Port Putnam.

A disabled spur could be reestablished to provide rail service to the Port's dockage area, and new spurs could be constructed to provide rail service to the Port Annex directly from the main CSX line. Either solution would not cause for the capacities of local and regional rail networks to be exceeded.

4-3.6.3 Airport

Port operations could add cargo shipments to local airport operations; however, it is not expected to impact airport operations beyond its current capacities.

4-3.7 Operational Impact

Operational impact from Port activities will take place in an industrial area and is expected to be minimal.

CHAPTER FIVE- GOALS, OBJECTIVES AND POLICIES

Florida Statutes require that Comprehensive Plans, which would include this Port Master Plan, "provide the principles, guidelines, standards, and strategies for the orderly and balanced future economic, social, physical, environmental, and fiscal development of the area that reflects community commitments to implement the plan and its elements (s 163.3177(1), Florida Statutes)." It further recognizes that these principles and strategies are generally provided as goals, objectives, and policies within the plans. In this Chapter the Port's goals will be presented. The upcoming Port Development Plan in conjunction with consultation with the Putnam County Port Authority will review, confirm and revise the listed goals and guide staff in the development of supporting objectives and policies for said goals.

5-1 GOAL 1: ECONOMIC GROWTH

Port Putnam, located in Putnam County just north of the City of Palatka the county seat, intends to plan and develop a functional commercial cargo vessel facility taking into consideration market forecasts, business inquiries, community's industrial and commercial resources, and working in cooperation with its public and private partners to create jobs and stimulate local and regional economic development. To achieve this goal, Port Putnam will engage professional experts using Maritime Administration Port Infrastructure Development grant funds to develop a phased program of infrastructure development and targeted marketing to provide the maximum possible economic, environmental, and social benefits to the community and region.

5-2 GOAL 2: REGIONAL COLLABORATION

Port Putnam shall coordinate efforts with State and Local government as well as private stakeholders, and collaborate with some on initiatives to enhance economic development opportunities in Northeast Florida.

5-3 GOAL 3: ENVIRONMENT

Port Putnam is committed to preserving and protecting the quality of environmental resources in the community. It shall conserve and protect these resources consistent with port development and expansion.

5-4 GOAL 4: TRANSPORTATION EFFICIENCIES

Port Putnam will work with Local, State and Federal agencies as well as private entities responsible for road, water, air, and rail connectivity to ensure that the intermodal transportation infrastructure and connectivity necessary for Port operations are in place.

5-5 GOAL 5: SECURITY

Port Putnam will establish programs and measures to protect human life and property from natural and man-made disasters.

5-6 GOAL 6: FINANCIAL STABILITY

Measures shall be undertaken to ensure Port Putnam's financial health as it develops and expands.

CHAPTER SIX- CAPITAL IMPROVEMENT PLAN

6-1 FIVE YEAR PLAN

Port Putnam has developed a phased five (5) year Capital Improvement Plan (CIP hereafter) to implement its five (5) year plan detailed in Chapter 4 of the 2023 Port Master Plan.

Figure 6-1: Five year CIP

	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	Total
Channel Dredging	TBD by USACE estimate					$0.00
Bulkhead Replacement	$280,000.00	$800,000.00	$0.00	$0.00	$0.00	$1,080,000.00
Dockage and Access Reconstruction	$0.00	$0.00	$1,266,900.00	$1,393,500.00	$734,700.00	$3,395,100.00
Total	$280,000.00	$800,000.00	$1,266,900.00	$1,393,500.00	$734,700.00	$4,475,100.00

Port Putnam will update its CIP annually to reflect changes in priority and new industry demands and opportunities.

The top priority for Port Putnam is to have the access channel from the Port to the Federal Waterway dredged in order to permit commercial vessels to make calls at the Port. This will be accomplished in cooperation with the U.S. Army Corps of Engineers. Putnam County Port Authority has pledged to match 20% of the dredging costs. The final cost for dredging the channel is still being determined by the U.S. Army Corps of Engineers and shall be provided no later than 29 March 2024 when their Tentatively Selected Plan is scheduled to be submitted to headquarters.

Additional essential projects necessary for the Port's proper operation include the current bulkhead, constructed in 1961, that requires replacement at an estimated $630,000.00 excluding permitting and environmental review; and replacement of the dockage and access surfacing at an estimated costs of $2,308,668.00 excluding permitting and environmental review. Funding sources have yet to be identified but could include the Florida State Legislature, Putnam County, the Florida Seaport Transportation and Economic Development Council, and the U.S. Department of Transportation's Maritime Administration.

6-2 TEN YEAR PLAN

The ten (10) year CIP will be updated annually to reflect changes in priorities and new industry demands and opportunities. Current projects include upgrading facilities security to meet dictated Department of Homeland Security and United States Coast Guard requirements; remodeling of the Port Annex and refurbishing of Port Annex structures to create an intermodal cargo hub that can accept and ship cargo by water, rail or road; and construction of a new rail spur off the CSX main line into the Port Annex property to permit cargo loading and unloading of rail cars.

Fiscal Year	Security Upgrades	Port Annex Refurbish	Additional Rail Spur	Total
23/24	$0.00	$0.00	$0.00	$0.00
24/25	$0.00	$0.00	$0.00	$0.00
25/26	$0.00	$100,000.00	$0.00	$100,000.00
26/27	$200,000.00	$200,000.00	$0.00	$400,000.00
27/28	$0.00	$200,000.00	$225,000.00	$425,000.00
28/29	$0.00	$200,000.00	$225,000.00	$425,000.00
29/30	$150,000.00	$200,000.00	$0.00	$350,000.00
30/31	$0.00	$200,000.00	$0.00	$200,000.00
31/32	$0.00	$200,000.00	$0.00	$200,000.00
32/33	$0.00	$200,000.00	$0.00	$200,000.00
Total	$350,000.00	$1,500,000.00	$450,000.00	$2,300,000.00

APPENDICES

APPENDIX A

PUTNAM COUNTY PORT AUTHORITY CHARTER LEGISLATION

Nancy

CHAPTER 67-1961

House Bill No. 2200

AN ACT relating to Putnam county; creating, establishing and organizing a port district in the county of Putnam, to be known and designated as the Putnam county port district; defining its territorial boundaries and providing for its government, jurisdiction, powers, franchises and privileges; creating a port authority; designating the board of county commissioners as the membership of the port authority; providing that the administrative expenses of the authority shall be defrayed by the port district and authorizing and empowering said port district to make appropriations to defray said expenses; empowering and authorizing the board of county commissioners of said county to levy and collect taxes within said port district; providing for the deposit of moneys of said authority and for an annual budget of the authority; authorizing and providing for the issuance and sale of bonds by Putnam county port district; authorizing and providing for the levying and collection of taxes for the payment of said bonds and the interest thereon; providing for a referendum.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Port district established.—There is hereby estab-

lished a port district in Putnam county, to be known as the "Putnam county port district," which shall comprise and include all the territory within said Putnam county.

Section 2. Definitions.—As used in this act the following words and terms shall have the following meanings:

(1) The term "port district" means the Putnam county port district.

(2) The word "county" means the county of Putnam, in the state of Florida.

(3) The term "county commissioners" means the board of county commissioners, the governing body of the county of Putnam.

(4) The term "port authority" or the word "authority" means the Putnam county port authority hereinafter created.

(5) The word "project" means any one (1) or any combination of two (2) or more of the following, when undertaken by or owned, controlled or operated by the port authority: Channels, anchorage areas, jetties, breakwaters, harbors, canals, airports, locks, waterways, tidal and turning basins, wharves, docks, piers, quays, slips, bulkheads, public landings, terminal storage and sheddage facilities, warehouses, refrigeration, cold storage and quick freezing plants, stockyards, elevators, shipyards, marine railways, drydocks, oil tanks, pipe lines, terminal railway facilities, including rolling stock, belt line railroad, ferries and car ferries, police boats, bridges, causeways, tunnels, facilities for the loading, unloading and handling of passengers, mail, express, freight and other cargo and any and all other facilities, including all property rights, easements and franchises relating to any such project or projects which by resolution the authority may deem necessary and convenient.

(6) The word "improvements" means such replacements, repairs, extensions, additions, enlargements and betterments of and to a project as are deemed necessary to place such project in proper condition for the safe, efficient and economic operation thereof, when such project shall be undertaken by or owned, controlled or operated by the port authority.

(7) The term "cost" as applied to improvements means the

cost of acquiring or constructing improvements as hereinabove defined and includes the cost of all labor and materials, of all machinery and equipment, cost of engineering and legal expense, plans, specifications, financing charges and such other expenses as may be necessary or incident to such acquisition or construction.

(8) The term "cost" as applied to a project acquired, constructed, extended or enlarged includes the purchase price of any project acquired, the cost of such construction, extension or enlargement, the cost of improvements, the cost of all lands, properties, rights, easements and franchises acquired, the cost of all machinery and equipment, the cost of engineering and legal services, all investigations and audits, financing charges and all other expenses necessary or incident to determining the practicability or feasibility of such acquisition or construction, administrative expense and such other expenses as may be necessary or incident to the financing herein authorized and to the construction or acquisition of a project and the placing of the same in operation. Any obligation or expense incurred by the port authority prior to the issuance of revenue bonds under the provisions of this act for engineering studies and for estimates of cost and of revenues and for other technical, financial or legal services in connection with the acquisition or construction of any project may be regarded as part of the cost of such project.

(9) The word "bonds" means and includes ad valorem bonds, revenue bonds, refunding bonds or other evidence of indebtedness or obligations in either temporary or definitive form, which the district is authorized to issue pursuant to this act.

(10) The term "ad valorem bonds" means bonds and the interest thereon which are payable from the proceeds of ad valorem taxes.

(11) The words "revenue bonds" mean revenue certificates of other obligations and the interest thereon which are payable from revenues derived from the operation of the facilities of the port district or from other non ad valorem tax sources.

Section 3. Putnam county port authority.—There is hereby created the Putnam county port authority which shall be the governing body and authority of the area defined in section 2 hereof; said authority shall constitute a body politic and body

corporate, including the power to sue and be sued, under the name of Putnam county port authority, to contract and be contracted with; to adopt and use a common seal and convey such real and personal property as the authority may deem proper or expedient to carry out the purposes of this act; to employ such employees, persons and agents as the authority may deem advisable and to fix the compensation thereof, and to remove any appointees or employees, agents or servants; to insure the improvements, fixtures and equipment against loss by fire, windstorm or other coverage in such amounts as may be determined reasonable and proper; to purchase equipment and pay for same by use of retain title contracts or lease purchase contracts or such other method agreeable to the authority; to borrow and issue evidence of indebtedness of the district to carry out the provisions of this act in the manner herein provided.

(1) The Putnam county port authority shall consist of the duly elected members of the board of county commissioners of Putnam county. The chairman and other officers of the board of county commissioners shall serve in the same capacity on the authority.

(2) A port manager may be employed by the authority, but no member of the authority shall be employed as such port manager.

(3) Three (3) members of the authority shall constitute a quorum. The vote of three (3) members shall be necessary for any action taken by the authority involving the incurring of any indebtedness or expenditures of authority funds or moneys.

(4) The members of the authority shall not receive compensation for their services, but shall be reimbursed for travel and per diem the same as that provided for county officials; provided, however, that such member of the authority shall submit a signed statement requesting the allowable expenses within six (6) months from the date of the incurring of such expenses. The port manager shall receive such salary as the authority may set.

(5) The port manager shall be a full-time employee for the port authority and shall devote his time and attention to the discharge of his duties.

(6) The port authority shall have power to employ such persons in addition to the port manager as the business of the port authority may require.

(7) The authority shall have the power to contract with similar authorities in carrying out common projects and the purposes of this act.

Section 4. Construction of new projects.—It shall be the duty of the port authority to make or cause to be made such investigations, studies, surveys, plans, drawings, borings, maps and estimates of costs and of revenues as it may deem necessary and thereafter prepare and adopt a comprehensive plan for the development and improvement of the harbor and shipping facilities of the port district. Such comprehensive plan may be extended, modified, changed or enlarged by the authority from time to time. The authority is authorized and empowered, whenever it shall deem such action feasible and practicable, to acquire, construct, extend or enlarge any project, as hereinabove defined.

Section 5. Powers of port authority.—The port authority shall have all of the powers necessary and proper, including the responsibility of formulating and carrying out plans for the long-range development of the facilities of ports within the district and traffic through the said ports. Preference shall be given in every instance to attaining the objects hereof through encouraging the investment of private capital and the location of private business on lands of the district. The authority shall have the following powers:

(1) The right and power of eminent domain over real and personal property and the right to maintain eminent domain proceedings in the form and in the manner as prescribed by the general laws of the state.

(2) To acquire, by purchase, condemnation through power of eminent domain, gift, grant, franchise or lease, property, either real or personal and to grant easements of right of way over or through any lands owned by the authority.

(3) To construct, acquire, establish, extend, enlarge, improve, reconstruct, maintain, equip, repair and operate any project, as hereinabove defined, within the boundaries of said port district.

(4) To borrow money and to incur indebtedness, to issue revenue certificates as the authority may from time to time determine; but such indebtedness of the authority for certificates issued shall not be considered a debt of Putnam county.

(5) To apply to the proper authorities of the United States for the right to establish, operate and maintain foreign and domestic trade zones within the limits of said port district and to establish, operate and maintain such foreign and domestic trade zones.

(6) To fix uniform rates and charges for wharfage, dockage, transit, storage, sheddage and handling to and from vessels, where such facilities are owned by said authority or otherwise, insofar as it may be permissible for said authority to do so under the constitution of Florida and the constitution and laws of the United States.

(7) To make rules and regulations for its own government and to hold regular meetings at least once a month, said meetings to be open to the public.

(8) To operate, manage and control all projects as hereinabove defined, hereafter acquired or constructed under the provisions of this act.

(9) To enter into joint agreements and arrangements with steamship lines, railroads or other transportation lines or any common carrier as the authority shall deem to its advantage to do so.

(10) To make and enter into all contracts and agreements necessary or incidental to the performance of its duties and the execution of its powers and to appoint and employ such engineers, architects, attorneys, agents and other employees as may be necessary in its judgment and to fix their compensation; provided, however, that such compensation must be within the amount appointed for such purpose in the annual budget of the authority.

(11) To exercise such powers as may be reasonably necessary to effectively control and regulate facilities under its jurisdiction.

(12) To appoint, regulate, control and prescribe the rights, duties, functions and compensation of harbor masters.

(13) To appoint a manager of the port authority and to determine his duties and his compensation in accordance with the provisions elsewhere contained in this act.

(14) To receive and accept from the federal government or any agency thereof grants for or in aid of the construction of any project.

(15) Subject to the jurisdiction of the United States and the state of Florida, to improve and develop the harbor and all navigable and non-navigable waters connected therewith.

(16) To perform all customary port services as may be required, including lighterage, stevedoring, handling, inspecting, conditioning and reconditioning of all commodities and cargo handled, received or shipped through the facilities and district of the authority.

(17) To make such rules and regulations governing the operation, docking, movement and staging of crafts plying the waterways in the district which are under the jurisdiction of the authority.

(18) To impose a franchise or license tax upon businesses and occupations carried on or operated under and by virtue of any franchises, licenses or privileges granted by the authority with respect to any project owned, controlled or operated by the port authority.

(19) To advertise the ports of such district in such manner as the authority deems advisable; to negotiate and contract with shippng companies and other such institutions as the authority may deem necessary for development and expansion of the port district.

(20) To make leases to persons or corporations of property, land and facilities of the authority.

Section 6. Port district authorized to defray administrative expenses of the authority.—The administrative expenses of the authority shall be defrayed by the port district and said port district is hereby authorized and empowered to make appropria-

tions for and to defray such expenses. The board of county commissioners of Putnam county is hereby empowered and authorized to levy and collect taxes on all property within said port district to meet the appropriations provided for in this act; provided, however, the same shall not exceed one half (½) mill per year.

Section 7. Deposit of moneys of the authority.—All moneys of the authority, whether derived from taxes or levied and collected within the port district or from other sources, shall be paid into the treasury of the authority. Such moneys shall be used exclusively by the authority and shall be disbursed by the authority with the approved budgetary practice and accounting methods. No funds or moneys shall be withdrawn from the treasury of the authority except upon action by the port authority and upon vouchers therefor signed by the chairman and the clerk. The clerk shall execute a faithful performance bond in such sum as the authority shall from time to time determine, the premium thereon to be paid by the authority. Said authority may require such other officers or members of the authority or employees thereof to execute faithful performance bonds in such sum as the authority shall from time to time determine, the premium thereon to be paid by the authority.

Section 8. Annual budget of the authority.—The port authority shall prepare, annually, a detailed estimate of the financial requirements of the authority, including all administrative and operating expenses for the ensuing year.

Section 9. Issuance of bonds.—

(1) The authority is hereby authorized to provide by resolution at one time or from time to time for the issuance of bonds of the port district for the purpose of paying all or a part of the cost of any project or improvement of the district or any combination thereof. The bonds of each issue shall be dated, shall bear interest at such rate or rates not exceeding six per cent (6%) per annum, shall mature at such time or times, not exceeding thirty (30) years from their date or dates, as may be determined by the authority, and may be made redeemable before maturity, at the option of the authority, at such price or prices and under such terms and conditions as may be fixed by the authority prior to the issuance of the bonds. The authority

shall determine the form of the bonds, including any interest coupons to be attached thereto, and the manner of execution of the bonds and coupons and shall fix the denomination or denominations of the bonds and coupons and the place or places of payment of principal and interest, which may be at any bank or trust company within or without the state. In case any officer whose signature or a facsimile of whose signature shall appear on any bonds or coupons shall cease to be such officer before the delivery of such bonds, such signature or such facsimile shall nevertheless be valid and sufficient for all purposes the same as if he had remained in office until such delivery. All bonds issued under the provisions of this act shall have and are declared to have all the qualities and incidents of negotiable instruments under the laws of the state. The bonds may be issued in coupon or in registered form or both, as the authority may determine, and provisions may be made for the registration of any coupon bonds as to principal alone and also as to both principal and interest and for the reconversion into coupon bonds of any bonds registered as to both principal and interest. The issuance of such bonds shall not be subject to any limitations or conditions contained in any other law, and the authority may sell such bonds in such manner and for such price, as it may determine to be for the best interest of the district, but no such sale shall be made at a price so low as to require the payment of interest on the money received therefor at more than six per cent (6%) per annum computed with relation to the absolute maturity of the bonds in accordance with standard tables of bond values, excluding, however, from such computations the amount of any premium to be paid on redemption of any bonds prior to maturity. Prior to the preparation of definitive bonds, the authority may, under like restrictions, issue interim receipts or temporary bonds with or without coupons, exchangeable for definitive bonds when such bonds have been executed and are available for delivery. The authority may also provide for the replacement of any bonds which shall be mutilated or be destroyed or lost.

(2) Bonds may be issued under the provisions of this act without obtaining the consent of any commission, board, bureau or agency of the state or county and without any other proceedings or the happening of any other condition or thing than those proceedings, conditions or things which are specifically re-

quired by this act. The bonds may be validated in accordance with the constitution and the laws of Florida.

(3) The proceeds of the bonds shall be used solely for the payment of the cost of the project for which such bonds shall have been authorized and shall be disbursed in the manner provided in the resolution or in the trust agreement authorizing the issuance of such bonds. In the event that the actual cost of the project exceeds the estimated cost, the authority may issue additional bonds to cover the deficiency, subject to the same restrictions as required for the original issue.

Section 10. Ad valorem bonds.—Ad valorem bonds of the district may be issued by the authority for the purposes provided herein in an amount not exceeding seven hundred fifty thousand dollars ($750,000.00) provided the issuance of such ad valorem bonds shall have been approved by a majority of the votes cast in a freeholder election pursuant to the requirements of the constitution of Florida. For the prompt payment of the principal of and interest on such ad valorem bonds, the authority is authorized to provide annually for the levy of a special tax, without limitation as to rate or amount, upon all taxable property within the district over and above all other taxes authorized by law, sufficient to pay such principal and interest as the same respectively become due and payable. The proceeds of all such taxes levied to pay such principal and interest shall be deposited as received to the credit of a sinking fund and used for no other purposes than the payment of such principal and interest; provided, however, that the revenues derived from the operation of any facility or any combination of the facilities of the district shall, if so authorized by the resolution providing for the issuance of such ad valorem bonds, be deposited to the credit of the sinking fund for such ad valorem bonds and in that event the amount of the annual levy herein required may be reduced in any year by the amount of such revenues actually received in the preceding year, excluding any depreciation fund, and then remaining on deposit to the credit of the sinking fund for the payment of such principal and interest.

Section 11. Revenue bonds; payment, security.—

(1) Revenue bonds of the district may be issued under the provisions of this act and shall be payable from the revenues

derived from the operation of any facility or combination of facilities of the district under the supervision, operation and control of the authority and from any other funds legally available therefor; except ad valorem taxes. The issuance of such revenue bonds shall not directly, indirectly or contingently obligate the state, the authority, the district or the county to levy any ad valorem taxes or to make any appropriations for their payment or for the operation and maintenance of the facilities of the district.

(2) The district shall not convey or mortgage any facility or any part thereof as security for the payment of the revenue bonds.

(3) In the discretion of the authority, each or any issue of such revenue bonds may be secured by a trust agreement by and between the district and a corporate trustee, which may be any trust company or bank having the powers of a trust company within or outside of the state. Such trust agreement may pledge or assign the revenues to be received by the authority. The resolution providing for the issuance of revenue bonds or such trust agreement may contain such provisions for protecting and enforcing the rights and remedies of the bondholders as may be reasonable, proper and not in violation of law, including covenants setting forth the duties of the authority in relation to the acquisition, construction, improvement, maintenance, operation, repair, equipping and insurance of the facilities, and the custody, safeguarding and application of all moneys. It shall be lawful for any bank or trust company incorporated under the laws of this state to act as such depository and to furnish such indemnifying bonds or to pledge such securities as may be required by the authority. Such resolution or such trust agreement may restrict the individual right of action by bondholders as is customary in trust agreements securing bonds or debentures of corporations. In addition to the foregoing, such resolution or such trust agreement may contain such other provisions as the authority may deem reasonable and proper for the security of bondholders. Except as in this act otherwise provided, the authority may provide, by resolution or by trust agreement, for the payment of the proceeds of the sale of the revenue bonds and the revenues of the facilities to such officer, board or depository as

it may determine for the custody thereof, and for the method of disbursement thereof, with such safeguards and restrictions as it may determine. All expenses incurred in carrying out such trust agreement may be treated as a part of the cost of operation of the facilities affected by such trust agreement.

(4) The resolution or trust agreement providing for the issuance of the revenue bonds may also contain such limitations upon the issuance of additional revenue bonds as the authority may deem proper, and such additional bonds shall be issued under such restrictions or limitations as may be prescribed by such resolution or trust agreement.

Section 12. Refunding bonds.—The authority is authorized to provide by resolution for the issuance of refunding bonds or refunding revenue bonds of the district for the purpose of refunding any bonds or revenue bonds, respectively, then outstanding and issued under the provisions of this act. The authority is further authorized to provide by resolution for the issuance of refunding revenue bonds for the combined purpose of paying the cost of any project of the district and refunding bonds or revenue bonds of the district which shall theretofore have been issued under the provisions of this act and shall then be outstanding. The issuance of such bonds, the maturities and other details thereof, the right and remedies of the holders thereof, the rights, powers, privileges, duties and obligations of the authority with respect to the same shall be governed by the foregoing provisions of this act insofar as the same may be applicable.

Section 13. Determining amount to be raised by taxation. —Prior to the issuance of such bonds, the Putnam county port authority shall, by resolution, determine the amount which will be necessary to be raised annually by taxation for an interest and sinking fund with which to pay the principal and interest on said bonds, and said authority is hereby authorized, empowered and required to provide for the levy and collection annually of a sufficient tax upon all the taxable property in Putnam county, not exempt by law, to pay such interest, and to provide and maintain a sinking fund for the payment of the principal and interest of said bonds.

Section 14. Audit.—The books and records of the authority

shall be audited in the same manner as the offices and boards of the county officials are audited.

Section 15. Further bond requirements.—No resolution or proceeding in respect to the issuance of said bonds hereunder shall be necessary, except such as is required by this act. No publication of any resolution or proceeding relating to the issuance of the said bonds shall be required, except such as required by this act or the election code of the state. Any publication prescribed hereby may be made in any newspaper conforming to the terms of this act, without regard to the designation thereof as the official organ of the authority. Bonds issueed hereunder have all the qualities of negotiable paper under the law merchant, shall not be invaiid for any irregularity or defect in the proceedings for the issue and sale thereof and shall be incontestable in the hands of bona fide purchasers or holders thereof for value.

Section 16. Warrant for payment of funds.—The funds of the authority shall be paid out only upon warrant signed by the chairman and the clerk of the authority, having thereto affixed the corporate seal of the authority, and no warrant shall be drawn or issued against funds of the authority except for a purpose authorized by this act, and no such warrant against funds of the authority shall be drawn or issued until after the account or expenditure for which the same is to be given in payment has been ordered and approved by the authority.

Section 17. Levy of taxes.—The levy by the authority of the taxes authorized by this act, which shall be in lieu of all other ad valorem taxes that may be levied by the authority by virtue of this or any special or general law for the annual debt service requirements on its outstanding bonds and for administrative expenses shall be by resoiution of said authority duly entered upon the minutes of the authority. Certified copies of such resolution executed in the name of the authority by its chairman, under its corporate seal, shall be made and delivered to the board of county commissioners of Putnam county, and to the comptroller of the state, not later than June 15 of each and every year. It shall be the duty of the board of county commissioners to order and require the county tax assessor to assess and the county tax collector to collect the

amount of taxes so assessed or levied by the authority upon the taxable property in said county, not exempt by law, at the rate of taxation adopted by said authority for said year. The tax collector shall collect such tax so levied by said authority in the same manner as other taxes are collected and shall pay the same over to the authority within the time and in the manner prescribed by law for the payment by the tax collector of county taxes to the county depository. It shall be the duty of the state comptroller to assess and levy on all the railroad lines and railroad property and telegraph lines and telegraph property situated or located in said county, including as well all telephone lines. The said taxes shall be assessed by the same officer as are county taxes upon such property, and such taxes shall be remitted by the collecting officer to the Putnam county port authority. All such taxes shall be held by said authority and paid out by them as provided in this act. The authority is authorized to pay necessary expenses to the aforenamed officers for the assessment and collection of taxes on a reasonable fee basis.

Section 18. Referendum.—This act shall take effect only upon the affirmative vote of a majority of the votes cast in a special election as herein provided for. Only freeholders who are qualified electors residing in Putnam county shall be entitled to vote at said election. The question submitted at said election, which shall be recited on the ballots shall be substantially in the following form:

Shall the act providing the Board of County Commissioners be empowered to establish, equip, construct and maintain a Barge Port in Putnam County and to act as a Barge Port Authority; and authorizing the issuance of not more than $750,000 of bonds of the Putnam County Port Authority for the purpose of establishing said Port be approved?

If a majority of the votes cast at said election on the above question shall be for the approval of the act and if a majority of such freeholders shall participate in said election, this act shall immediately be in full force and effect. Said election shall be called by the board of county commissioners of Putnam county and held within fifteen (15) months after the passage of this act and may be held at the same time that any general or primary election is held in the county, anything or any law

to the contrary notwithstanding. The special election shall be conducted, notice thereof shall be published and the returns thereof shall be canvassed in the manner provided by the election code of the state for the holding of bond elections insofar as the same may be applicable.

Section 19. Payment of election expenses.—The authority is authorized to pay from its funds all expenses of the election authorized herein, including costs of voter registration and all expenses necessarily incurred with the issuance of the bonds herein authorized and all other reasonable and necessary expenses incident thereto, including the fees and expenses of an attorney and fiscal agent.

Section 20. It is intended that the provisions of this act shall be liberally construed for accomplishing the work authorized and provided for or intended to be provided for in this act, and where strict construction would result in the defeat of the accomplishment of any part of the work authorized by this act, and a liberal construction would permit or assist in the accomplishment thereof, the liberal construction shall be chosen.

Section 21. Any clause or section of this act which for any reason may be held or declared invalid, may be eliminated and the remaining portion or portions thereof shall be and remain in full force and be valid, as if such invalid clause or section has not been incorporated therein.

Became a law without the Governor's approval.

Filed in Office Secretary of State July 4, 1967.

3747

APPENDIX B

FLORIDA HOUSE OF REPRESENTATIVES BILL 907 (2022)

A bill to be entitled

An act relating to the Florida Seaport Transportation and Economic Development Council; amending s. 311.09, F.S.; revising the membership of the Florida Seaport Transportation and Economic Development Council to include a representative of Putnam County; authorizing Putnam County to apply for a grant for a port feasibility study through the Florida Seaport Transportation and Economic Development Council; providing for the evaluation of the application; requiring the Department of Transportation to include the study in its budget request under certain circumstances; requiring the council to review the study and make a determination; terminating the membership of Putnam County on the council under certain circumstances; reenacting ss. 163.3178(2)(k), (5), and (6), 189.068(6), 311.07(1) and (3)(a) and (b), 311.091, 311.10(1) and (2), 311.101(2), 311.12(2)(a), (3), and (6)(a), 311.121(2) and (3)(a), 311.14(1), 315.18, 320.20(3) and (4), 334.27(1), 337.14(7), 373.406(12), 373.4133(2) and (10), 373.4136(6)(d), and 403.061(38) and (39), F.S., relating to coastal management, the oversight of deepwater ports, Florida seaport transportation and economic development funding, entry into public-

private infrastructure project agreements for port-related public infrastructure projects, the Strategic Port Investment Initiative within the department, the Intermodal Logistics Center Infrastructure Support Program, seaport security, licensed security officers at Florida seaports, seaport planning, the confidentiality of certain records held by deepwater ports, the disposition of license tax moneys, the definition of the term "governmental transportation entity," seaport contractor services, exemptions for overwater piers, docks, or similar structures in deepwater ports, port conceptual permits, the authorized use of mitigation banks, and the duties of the Department of Environmental Protection in providing environmental resource permits, respectively, to incorporate the amendment made to s. 311.09, F.S., in references thereto; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Subsection (1) of section 311.09, Florida Statutes, is amended, and subsection (13) is added to that section, to read:

311.09 Florida Seaport Transportation and Economic

Development Council.—

(1) The Florida Seaport Transportation and Economic Development Council is created within the Department of Transportation. The council consists of the following 18 ~~17~~ members: the port director, or the port director's designee, of each of the ports of Jacksonville, Port Canaveral, Port Citrus, Fort Pierce, Palm Beach, Port Everglades, Miami, Port Manatee, St. Petersburg, Putnam County, Tampa, Port St. Joe, Panama City, Pensacola, Key West, and Fernandina; the secretary of the Department of Transportation or his or her designee; and the secretary of the Department of Economic Opportunity or his or her designee.

(13) Until July 1, 2024, Putnam County may apply for a grant through the Florida Seaport Transportation and Economic Development Council to perform a study examining the economic, technical, and operational viability of the establishment of a port in Putnam County. The council shall evaluate the grant application pursuant to subsections (5)-(8) and, if approved, the Department of Transportation must include the feasibility study in its budget request pursuant to subsection (9). The council shall review the study upon completion to determine if a port in Putnam County is viable. If the council does not approve the study, the membership of Putnam County on the council must terminate.

Section 2. For the purpose of incorporating the amendment

made by this act to section 311.09, Florida Statutes, in references thereto, paragraph (k) of subsection (2) and subsections (5) and (6) of section 163.3178, Florida Statutes, are reenacted to read:

163.3178 Coastal management.—

(2) Each coastal management element required by s. 163.3177(6)(g) shall be based on studies, surveys, and data; be consistent with coastal resource plans prepared and adopted pursuant to general or special law; and contain:

(k) A component which includes the comprehensive master plan prepared by each deepwater port listed in s. 311.09(1), which addresses existing port facilities and any proposed expansions, and which adequately addresses the applicable requirements of paragraphs (a)-(k) for areas within the port and proposed expansion areas. Such component shall be submitted to the appropriate local government at least 6 months prior to the due date of the local plan and shall be integrated with, and shall meet all criteria specified in, the coastal management element. "The appropriate local government" means the municipality having the responsibility for the area in which the deepwater port lies, except that where no municipality has responsibility, where a municipality and a county each have responsibility, or where two or more municipalities each have responsibility for the area in which the deepwater port lies, "the appropriate local government" means the county which has

responsibility for the area in which the deepwater port lies. Failure by a deepwater port which is not part of a local government to submit its component to the appropriate local government shall not result in a local government being subject to sanctions pursuant to s. 163.3184. However, a deepwater port which is not part of a local government shall be subject to sanctions pursuant to s. 163.3184.

(5) The appropriate dispute resolution process provided under s. 186.509 must be used to reconcile inconsistencies between port master plans and local comprehensive plans. In recognition of the state's commitment to deepwater ports, the state comprehensive plan must include goals, objectives, and policies that establish a statewide strategy for enhancement of existing deepwater ports, ensuring that priority is given to water-dependent land uses. As an incentive for promoting plan consistency, port facilities as defined in s. 315.02(6) on lands owned or controlled by a deepwater port as defined in s. 311.09(1), as of the effective date of this act shall not be subject to development-of-regional-impact review provided the port either successfully completes an alternative comprehensive development agreement with a local government pursuant to ss. 163.3220-163.3243 or successfully enters into a development agreement with the state land planning agency and applicable local government pursuant to s. 380.032 or, where the port is a department of a local government, successfully enters into a

development agreement with the state land planning agency pursuant to s. 380.032. Port facilities as defined in s. 315.02(6) on lands not owned or controlled by a deepwater port as defined in s. 311.09(1) as of the effective date of this act shall not be subject to development-of-regional-impact review provided the port successfully enters into a development agreement with the state land planning agency and applicable local government pursuant to s. 380.032 or, where the port is a department of a local government, successfully enters into a development agreement with the state land planning agency pursuant to s. 380.032.

(6) Each port listed in s. 311.09(1) and each local government in the coastal area which has spoil disposal responsibilities shall provide for or identify disposal sites for dredged materials in the future land use and port elements of the local comprehensive plan as needed to assure proper long-term management of material dredged from navigation channels, sufficient long-range disposal capacity, environmental sensitivity and compatibility, and reasonable cost and transportation. The disposal site selection criteria shall be developed in consultation with navigation and inlet districts and other appropriate state and federal agencies and the public. For areas owned or controlled by ports listed in s. 311.09(1) and proposed port expansion areas, compliance with the provisions of this subsection shall be achieved through

comprehensive master plans prepared by each port and integrated with the appropriate local plan pursuant to paragraph (2)(k).

Section 3. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (6) of section 189.068, Florida Statutes, is reenacted to read:

189.068 Special districts; authority for oversight; general oversight review process.—

(6) This section does not apply to a deepwater port listed in s. 311.09(1) which is in compliance with a port master plan adopted pursuant to s. 163.3178(2)(k), or to an airport authority operating in compliance with an airport master plan approved by the Federal Aviation Administration, or to any special district organized to operate health systems and facilities licensed under chapter 395, chapter 400, or chapter 429.

Section 4. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in references thereto, subsection (1) and paragraphs (a) and (b) of subsection (3) of section 311.07, Florida Statutes, are reenacted to read:

311.07 Florida seaport transportation and economic development funding.—

(1) There is created the Florida Seaport Transportation and Economic Development Program within the Department of

Transportation to finance port transportation or port facilities projects that will improve the movement and intermodal transportation of cargo or passengers in commerce and trade and support the interests, purposes, and requirements of all ports listed in s. 311.09.

(3)(a) Florida Seaport Transportation and Economic Development Program funds shall be used to fund approved projects on a 50-50 matching basis with any of the deepwater ports, as listed in s. 311.09, which is governed by a public body or any other deepwater port which is governed by a public body and which complies with the water quality provisions of s. 403.061, the comprehensive master plan requirements of s. 163.3178(2)(k), and the local financial management and reporting provisions of part III of chapter 218. However, program funds used to fund projects that involve the rehabilitation of wharves, docks, berths, bulkheads, or similar structures shall require a 25-percent match of funds. Program funds also may be used by the Seaport Transportation and Economic Development Council for data and analysis that will assist Florida's seaports and international trade.

(b) Projects eligible for funding by grants under the program are limited to the following port facilities or port transportation projects:

1. Transportation facilities within the jurisdiction of the port.

2. The dredging or deepening of channels, turning basins, or harbors.

3. The construction or rehabilitation of wharves, docks, structures, jetties, piers, storage facilities, cruise terminals, automated people mover systems, or any facilities necessary or useful in connection with any of the foregoing.

4. The acquisition of vessel tracking systems, container cranes, or other mechanized equipment used in the movement of cargo or passengers in international commerce.

5. The acquisition of land to be used for port purposes.

6. The acquisition, improvement, enlargement, or extension of existing port facilities.

7. Environmental protection projects which are necessary because of requirements imposed by a state agency as a condition of a permit or other form of state approval; which are necessary for environmental mitigation required as a condition of a state, federal, or local environmental permit; which are necessary for the acquisition of spoil disposal sites and improvements to existing and future spoil sites; or which result from the funding of eligible projects listed in this paragraph.

8. Transportation facilities as defined in s. 334.03(30) which are not otherwise part of the Department of Transportation's adopted work program.

9. Intermodal access projects.

10. Construction or rehabilitation of port facilities as

defined in s. 315.02, excluding any park or recreational facilities, in ports listed in s. 311.09(1) with operating revenues of $5 million or less, provided that such projects create economic development opportunities, capital improvements, and positive financial returns to such ports.

11. Seaport master plan or strategic plan development or updates, including the purchase of data to support such plans.

Section 5. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, section 311.091, Florida Statutes, is reenacted to read:

311.091 Entry into public-private infrastructure project agreements for port-related public infrastructure projects.—A seaport listed in s. 311.09(1) may receive or solicit proposals from and enter into a public-private infrastructure project agreement with a private entity, or a consortium of private entities, to build, operate, manage, maintain, or finance a port-related public infrastructure project.

Section 6. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in references thereto, subsections (1) and (2) of section 311.10, Florida Statutes, are reenacted to read:

311.10 Strategic Port Investment Initiative.—

(1) There is created the Strategic Port Investment Initiative within the Department of Transportation. Beginning in

fiscal year 2012-2013, a minimum of $35 million annually shall be made available from the State Transportation Trust Fund to fund the Strategic Port Investment Initiative. The Department of Transportation shall work with the deepwater ports listed in s. 311.09 to develop and maintain a priority list of strategic investment projects. Project selection shall be based on projects that meet the state's economic development goal of becoming a hub for trade, logistics, and export-oriented activities by:

(a) Providing important access and major on-port capacity improvements;

(b) Providing capital improvements to strategically position the state to maximize opportunities in international trade, logistics, or the cruise industry;

(c) Achieving state goals of an integrated intermodal transportation system; and

(d) Demonstrating the feasibility and availability of matching funds through local or private partners.

(2) Prior to making final project allocations, the Department of Transportation shall schedule a publicly noticed workshop with the Department of Economic Opportunity and the deepwater ports listed in s. 311.09 to review the proposed projects. After considering the comments received, the Department of Transportation shall finalize a prioritized list of potential projects.

Section 7. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (2) of section 311.101, Florida Statutes, is reenacted to read:

311.101 Intermodal Logistics Center Infrastructure Support Program.—

(2) For the purposes of this section, the term "intermodal logistics center," including, but not limited to, an "inland port," means a facility or group of facilities serving as a point of intermodal transfer of freight in a specific area physically separated from a seaport where activities relating to transport, logistics, goods distribution, consolidation, or value-added activities are carried out and whose activities and services are designed to support or be supported by conveyance or shipping through one or more seaports listed in s. 311.09.

Section 8. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in references thereto, paragraph (a) of subsection (2), subsection (3), and paragraph (a) of subsection (6) of section 311.12, Florida Statutes, are reenacted to read:

311.12 Seaport security.—

(2) SECURITY PLAN.—

(a) Each seaport listed in s. 311.09 shall adopt and maintain a security plan specific to that seaport which provides for a secure seaport infrastructure that promotes the safety and

security of state residents and visitors and the flow of legitimate trade and travel.

(3) SECURE AND RESTRICTED AREAS.—Each seaport listed in s. 311.09 must clearly designate in seaport security plans, and clearly identify with appropriate signs and markers on the premises of a seaport, all secure and restricted areas as defined by 33 C.F.R. part 105.

(a)1. All seaport employees and other persons working at the seaport who have regular access to secure or restricted areas must comply with federal access control regulations as prescribed in this section.

2. All persons and objects in secure and restricted areas are subject to search by a sworn state-certified law enforcement officer, a Class D seaport security officer certified under Maritime Transportation Security Act of 2002 guidelines, or an employee of the seaport security force certified under the Maritime Transportation Security Act of 2002 guidelines.

3. Persons found in these areas without the proper permission are subject to the trespass provisions of ss. 810.08 and 810.09.

(b) The seaport must provide clear notice of the prohibition against possession of concealed weapons and other contraband material on the premises of the seaport. Any person in a restricted area who has in his or her possession a concealed weapon, or who operates or has possession or control

of a vehicle in or upon which a concealed weapon is placed or stored, commits a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083. This paragraph does not apply to active-duty certified federal or state law enforcement personnel or persons so designated by the seaport director in writing.

(c) During a period of high terrorist threat level, as designated by the United States Department of Homeland Security, the management or controlling authority of the port may temporarily designate any part of the seaport property as a secure or restricted area. The duration of such designation is limited to the period in which the high terrorist threat level is in effect or a port emergency exists.

(6) GRANT PROGRAM.—

(a) The Florida Seaport Transportation and Economic Development Council shall establish a Seaport Security Grant Program for the purpose of assisting in the implementation of security plans and security measures at the seaports listed in s. 311.09(1). Funds may be used for the purchase of equipment, infrastructure needs, cybersecurity programs, and other security measures identified in a seaport's approved federal security plan. Such grants may not exceed 75 percent of the total cost of the request and are subject to legislative appropriation.

Section 9. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in

references thereto, subsection (2) and paragraph (a) of subsection (3) of section 311.121, Florida Statutes, are reenacted to read:

311.121 Qualifications, training, and certification of licensed security officers at Florida seaports.—

(2) The authority or governing board of each seaport identified under s. 311.09 that is subject to the seaport security standards referenced in s. 311.12 shall require that a candidate for certification as a seaport security officer:

(a) Has received a Class D license as a security officer under chapter 493.

(b) Has successfully completed the certified training curriculum for a Class D license or has been determined by the Department of Agriculture and Consumer Services to have equivalent experience as established by rule of the department.

(c) Has completed the training or training equivalency and testing process established by this section for becoming a certified seaport security officer.

(3) The Seaport Security Officer Qualification, Training, and Standards Coordinating Council is created under the Department of Law Enforcement.

(a) The executive director of the Department of Law Enforcement shall appoint 11 members to the council, to include:

1. The seaport administrator of the Department of Law Enforcement.

2. The Commissioner of Education or his or her designee.

3. The director of the Division of Licensing of the Department of Agriculture and Consumer Services.

4. The administrator of the Florida Seaport Transportation and Economic Development Council.

5. Two seaport security directors from seaports designated under s. 311.09.

6. One director of a state law enforcement academy.

7. One representative of a local law enforcement agency.

8. Two representatives of contract security services.

9. One representative of the Department of Highway Safety and Motor Vehicles.

Section 10. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (1) of section 311.14, Florida Statutes, is reenacted to read:

311.14 Seaport planning.—

(1) The Department of Transportation shall develop, in coordination with the ports listed in s. 311.09(1) and other partners, a Statewide Seaport and Waterways System Plan. This plan shall be consistent with the goals of the Florida Transportation Plan developed pursuant to s. 339.155 and shall consider needs identified in individual port master plans and those from the seaport strategic plans required under this section. The plan will identify 5-year, 10-year, and 20-year

needs for the seaport system and will include seaport, waterway, road, and rail projects that are needed to ensure the success of the transportation system as a whole in supporting state economic development goals.

Section 11. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, section 315.18, Florida Statutes, is reenacted to read:

315.18 Confidentiality of certain records held by deepwater ports.—Any proposal or counterproposal exchanged between a deepwater port listed in s. 311.09(1) and any nongovernmental entity, relating to the sale, use, or lease of land or of port facilities, and any financial records submitted by any nongovernmental entity to such a deepwater port for the purpose of the sale, use, or lease of land or of port facilities, are confidential and exempt from s. 119.07(1) and s. 24(a), Art. I of the State Constitution. However, 30 days before any such proposal or counterproposal is considered for approval by the governing body of such a deepwater port, the proposal or counterproposal shall cease to be exempt. If no proposal or counterproposal is submitted to the governing body for approval, such a proposal or counterproposal shall cease to be exempt 90 days after the cessation of negotiations.

Section 12. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in

references thereto, subsections (3) and (4) of section 320.20, Florida Statutes, are reenacted to read:

320.20 Disposition of license tax moneys.—The revenue derived from the registration of motor vehicles, including any delinquent fees and excluding those revenues collected and distributed under the provisions of s. 320.081, must be distributed monthly, as collected, as follows:

(3) Notwithstanding any other provision of law except subsections (1) and (2), $15 million shall be deposited annually into the State Transportation Trust Fund solely for the purposes of funding the Florida Seaport Transportation and Economic Development Program as provided in chapter 311. Such revenues shall be distributed on a 50-50 matching basis to any port listed in s. 311.09(1) to be used for funding projects as described in s. 311.07(3)(b). Such revenues may be assigned, pledged, or set aside as a trust for the payment of principal or interest on bonds, tax anticipation certificates, or any other form of indebtedness issued by an individual port or appropriate local government having jurisdiction thereof, or collectively by interlocal agreement among any of the ports, or used to purchase credit support to permit such borrowings. However, such debt is not a general obligation of the state. The state covenants with holders of such revenue bonds or other instruments of indebtedness issued that it will not repeal or impair or amend in any manner that will materially and adversely affect the

rights of such holders so long as bonds authorized by this section are outstanding. Any revenues that are not pledged to the repayment of bonds authorized by this section may be used for purposes authorized under the Florida Seaport Transportation and Economic Development Program. This revenue source is in addition to any amounts provided and appropriated in accordance with s. 311.07. The Florida Seaport Transportation and Economic Development Council shall approve the distribution of funds to ports for projects that have been approved pursuant to s. 311.09(5)-(8). The council and the Department of Transportation may perform acts required to facilitate and implement this subsection. To better enable the ports to cooperate to their mutual advantage, the governing body of each port may exercise powers provided to municipalities or counties in s. 163.01(7)(d) subject to chapter 311 and special acts, if any, pertaining to a port. The use of funds provided pursuant to this subsection are limited to eligible projects listed in this subsection. Income derived from a project completed with the use of program funds, beyond operating costs and debt service, is restricted solely to further port capital improvements consistent with maritime purposes. Use of such income for nonmaritime purposes is prohibited. The revenues available under this subsection may not be pledged to the payment of any bonds other than the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds currently outstanding; however, such revenues may be pledged to

secure payment of refunding bonds to refinance the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds. Refunding bonds secured by revenues available under this subsection may not be issued with a final maturity later than the final maturity of the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds or which provide for higher debt service in any year than is currently payable on such bonds. Any revenue bonds or other indebtedness issued after July 1, 2000, other than refunding bonds shall be issued by the Division of Bond Finance at the request of the Department of Transportation pursuant to the State Bond Act.

(4) Notwithstanding any other provision of law except subsections (1), (2), and (3), $10 million shall be deposited annually into the State Transportation Trust Fund solely for the purposes of funding the Florida Seaport Transportation and Economic Development Program as provided in chapter 311 and for funding seaport intermodal access projects of statewide significance as provided in s. 341.053. Such revenues shall be distributed to any port listed in s. 311.09(1), to be used for funding projects as follows:

(a) For any seaport intermodal access projects that are identified in the 1997-1998 Tentative Work Program of the Department of Transportation, up to the amounts needed to offset the funding requirements of this section.

(b) For seaport intermodal access projects as described in

s. 341.053(6) which are identified in the 5-year Florida Seaport Mission Plan as provided in s. 311.09(3). Funding for such projects shall be on a matching basis as mutually determined by the Florida Seaport Transportation and Economic Development Council and the Department of Transportation if a minimum of 25 percent of total project funds come from any port funds, local funds, private funds, or specifically earmarked federal funds.

(c) On a 50-50 matching basis for projects as described in s. 311.07(3)(b).

(d) For seaport intermodal access projects that involve the dredging or deepening of channels, turning basins, or harbors; or the rehabilitation of wharves, docks, or similar structures. Funding for such projects requires a 25 percent match of the funds received pursuant to this subsection. Matching funds must come from port funds, federal funds, local funds, or private funds.

Such revenues may be assigned, pledged, or set aside as a trust for the payment of principal or interest on bonds, tax anticipation certificates, or other form of indebtedness issued by an individual port or appropriate local government having jurisdiction thereof, or collectively by interlocal agreement among any of the ports, or used to purchase credit support to permit such borrowings. However, such debt is not a general obligation of the state. This state covenants with holders of

such revenue bonds or other instruments of indebtedness issued hereunder that it will not repeal, impair, or amend this subsection in a manner that will materially and adversely affect the rights of holders while bonds authorized by this subsection remain outstanding. Revenues that are not pledged to the repayment of bonds as authorized by this section may be used for purposes authorized under the Florida Seaport Transportation and Economic Development Program. This revenue source is in addition to any amounts provided for and appropriated in accordance with s. 311.07 and subsection (3). The Florida Seaport Transportation and Economic Development Council shall approve distribution of funds to ports for projects that have been approved pursuant to s. 311.09(5)-(8), or for seaport intermodal access projects identified in the 5-year Florida Seaport Mission Plan as provided in s. 311.09(3) and mutually agreed upon by the Florida Seaport Transportation and Economic Development Council and the Department of Transportation. All contracts for actual construction of projects authorized by this subsection must include a provision encouraging employment of participants in the welfare transition program. The goal for such employment is 25 percent of all new employees employed specifically for the project, unless the Department of Transportation and the Florida Seaport Transportation and Economic Development Council demonstrate that such a requirement would severely hamper the successful completion of the project. In such an instance,

CareerSource Florida, Inc., shall establish an appropriate percentage of employees who are participants in the welfare transition program. The council and the Department of Transportation may perform such acts as are required to facilitate and implement the provisions of this subsection. To better enable the ports to cooperate to their mutual advantage, the governing body of each port may exercise powers provided to municipalities or counties in s. 163.01(7)(d) subject to the provisions of chapter 311 and special acts, if any, pertaining to a port. The use of funds provided pursuant to this subsection is limited to eligible projects listed in this subsection. The revenues available under this subsection may not be pledged to the payment of any bonds other than the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds currently outstanding; however, such revenues may be pledged to secure payment of refunding bonds to refinance the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds. Refunding bonds secured by revenues available under this subsection may not be issued with a final maturity later than the final maturity of the Florida Ports Financing Commission Series 1996 and Series 1999 Bonds and may not provide for higher debt service in any year than is currently payable on such bonds. Any revenue bonds or other indebtedness issued after July 1, 2000, other than refunding bonds shall be issued by the Division of Bond Finance at the request of the Department of

Transportation pursuant to the State Bond Act.

Section 13. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (1) of section 334.27, Florida Statutes, is reenacted to read:

334.27 Governmental transportation entities; property acquired for transportation purposes; limitation on soil or groundwater contamination liability.—

(1) For the purposes of this section, the term "governmental transportation entity" means the department; an authority created pursuant to chapter 343, chapter 348, or chapter 349; airports as defined in s. 332.004(14); a port enumerated in s. 311.09(1); a county; or a municipality.

Section 14. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (7) of section 337.14, Florida Statutes, is reenacted to read:

337.14 Application for qualification; certificate of qualification; restrictions; request for hearing.—

(7) A "contractor" as defined in s. 337.165(1)(d) or his or her "affiliate" as defined in s. 337.165(1)(a) qualified with the department under this section may not also qualify under s. 287.055 or s. 337.105 to provide testing services, construction, engineering, and inspection services to the department. This limitation does not apply to any design-build prequalification

under s. 337.11(7) and does not apply when the department otherwise determines by written order entered at least 30 days before advertisement that the limitation is not in the best interests of the public with respect to a particular contract for testing services, construction, engineering, and inspection services. This subsection does not authorize a contractor to provide testing services, or provide construction, engineering, and inspection services, to the department in connection with a construction contract under which the contractor is performing any work. Notwithstanding any other provision of law to the contrary, for a project that is wholly or partially funded by the department and administered by a local governmental entity, except for a seaport listed in s. 311.09 or an airport as defined in s. 332.004, the entity performing design and construction engineering and inspection services may not be the same entity.

Section 15. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, subsection (12) of section 373.406, Florida Statutes, is reenacted to read:

373.406 Exemptions.—The following exemptions shall apply:

(12) An overwater pier, dock, or a similar structure located in a deepwater port listed in s. 311.09 is not considered to be part of a stormwater management system for which this chapter or chapter 403 requires stormwater from

impervious surfaces to be treated if:

(a) The port has a stormwater pollution prevention plan for industrial activities pursuant to the National Pollutant Discharge Elimination System Program; and

(b) The stormwater pollution prevention plan also provides similar pollution prevention measures for other activities that are not subject to the National Pollutant Discharge Elimination System Program and that occur on the port's overwater piers, docks, and similar structures.

Section 16. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in references thereto, subsections (2) and (10) of section 373.4133, Florida Statutes, are reenacted to read:

373.4133 Port conceptual permits.—

(2) Any port listed in s. 311.09(1) may apply to the department for a port conceptual permit, including any applicable authorization under chapter 253 to use sovereignty submerged lands under a joint coastal permit pursuant to s. 161.055 or an environmental resource permit issued pursuant to this part, for all or a portion of the area within the geographic boundaries of the port. A private entity with a controlling interest in property used for private industrial marine activities in the immediate vicinity of a port listed in s. 311.09(1) may also apply for a port conceptual permit under this section. A port conceptual permit may be issued for a

period of up to 20 years and extended one time for an additional 10 years. A port conceptual permit constitutes the state's conceptual certification of compliance with state water quality standards for purposes of s. 401 of the Clean Water Act and the state's conceptual determination that the activities contained in the port conceptual permit are consistent with the state coastal zone management program.

(10) In lieu of meeting the generally applicable stormwater design standards in rules adopted under this part, which create a presumption that stormwater discharged from the system will meet the applicable state water quality standards in the receiving waters, any port listed in s. 311.09(1) may propose alternative stormwater treatment and design criteria for the construction, operation, and maintenance of stormwater management systems serving overwater piers. The proposal shall include such structural components or best management practices to address the stormwater discharge from the pier, including consideration of activities conducted on the pier, as are necessary to provide reasonable assurance that stormwater discharged from the system will meet the applicable state water quality standards in the receiving waters.

Section 17. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in a reference thereto, paragraph (d) of subsection (6) of section 373.4136, Florida Statutes, is reenacted to read:

373.4136 Establishment and operation of mitigation banks.—

(6) MITIGATION SERVICE AREA.—The department or water management district shall establish a mitigation service area for each mitigation bank permit. The department or water management district shall notify and consider comments received on the proposed mitigation service area from each local government within the proposed mitigation service area. Except as provided herein, mitigation credits may be withdrawn and used only to offset adverse impacts in the mitigation service area. The boundaries of the mitigation service area shall depend upon the geographic area where the mitigation bank could reasonably be expected to offset adverse impacts. Mitigation service areas may overlap, and mitigation service areas for two or more mitigation banks may be approved for a regional watershed.

(d) If the requirements in s. 373.414(1)(b) and (8) are met, the following projects or activities regulated under this part shall be eligible to use a mitigation bank, regardless of whether they are located within the mitigation service area:

1. Projects with adverse impacts partially located within the mitigation service area.

2. Linear projects, such as roadways, transmission lines, distribution lines, pipelines, railways, or seaports listed in s. 311.09(1).

3. Projects with total adverse impacts of less than 1 acre in size.

Section 18. For the purpose of incorporating the amendment made by this act to section 311.09, Florida Statutes, in references thereto, subsections (38) and (39) of section 403.061, Florida Statutes, are reenacted to read:

403.061 Department; powers and duties.—The department shall have the power and the duty to control and prohibit pollution of air and water in accordance with the law and rules adopted and promulgated by it and, for this purpose, to:

(38) Provide a supplemental permitting process for the issuance of a joint coastal permit pursuant to s. 161.055 or environmental resource permit pursuant to part IV of chapter 373, to a port listed in s. 311.09(1), for maintenance dredging and the management of dredged materials from maintenance dredging of all navigation channels, port harbors, turning basins, and harbor berths. Such permit shall be issued for a period of 5 years and shall be annually extended for an additional year if the port is in compliance with all permit conditions at the time of extension. The department is authorized to adopt rules to implement this subsection.

(39) Provide a supplemental permitting process for the issuance of a conceptual joint coastal permit pursuant to s. 161.055 or environmental resource permit pursuant to part IV of chapter 373, to a port listed in s. 311.09(1), for dredging and the management of materials from dredging and for other related activities necessary for development, including the expansion of

navigation channels, port harbors, turning basins, harbor berths, and associated facilities. Such permit shall be issued for a period of up to 15 years. The department is authorized to adopt rules to implement this subsection.

The department shall implement such programs in conjunction with its other powers and duties and shall place special emphasis on reducing and eliminating contamination that presents a threat to humans, animals or plants, or to the environment.

Section 19. This act shall take effect July 1, 2022.

APPENDIX C

PORT ANNEX ENVIRONMENTAL STUDY

LAN ASSOCIATES, INC.
ENVIRONMENTAL CONSULTING
ENGINEERING
PLANNING & ZONING

March 10, 2022

VIA E-MAIL
julianne.young@putnam-fl.gov

Ms. Julianne Young
Deputy County Administrator
Putnam County Board of County Commissioners
2509 Crill Avenue, Suite 200
Palatka, FL 32177

Subject: Phase II Report
LAN Ref. #2.4021.02

Dear Ms. Young:

LAN Associates, Inc. (LAN) has completed the recommended ASTM Phase II for 234 Comfort Road. A Phase I report dated January 20, 2022, prepared by LAN, indicated three Recognized Environmental Concerns (RECs). The Phase I revealed RECs due to on-site ash waste, stormwater drainage into stormwater ponds, and wastewater discharge to septic systems on-site. It was LAN's opinion that a limited Phase II investigation was warranted based on known conditions, uses, and previous operations revealed from the Phase 1 study.

A preliminary Phase II was conducted on January 28, 2022 by LAN personnel. Groundwater samples were collected utilizing three temporary monitoring wells (TW-1, TW-2 and TW-3) at each of the REC areas identified in the Phase I Report. Refer to Attachment 1, Site Plan, Figure 1, for a map of the site and the location of the wells and samples. Sediment samples were collected at the northern and eastern stormwater ponds and samples were collected with soil boring from the waste pile and suspect ash location identified during the installation of TW-3.

The temporary monitoring wells were constructed using a 3-inch stainless steel hand auger to advance the temporary wells below land surface. A 5-foot, 1-inch diameter schedule 40 PVC pre-packed (20/40 grade silica sand) well screen was utilized to construct the wells with 5-foot PVC riser extensions. After monitoring well installation and prior to groundwater sampling, the wells were developed for approximately 30 minutes and then allowed to rest (recover). Groundwater samples were collected in accordance with FDEP and EPA guidelines and best management practices. The samples were collected by purging the wells using a peristaltic pump until measured parameters stabilized. Dedicated tubing was used to minimize the risk of cross-

contamination. Low flow rates were utilized during sampling to minimize disturbance and reduce turbidity.

The soil and groundwater samples were placed in pre-preserved, laboratory-prepared sample containers, packed on ice, and delivered to the laboratory for analysis. The samples were analyzed for priority pollutant (PP) metals (13), PCBs by EPA method 8082, TRPH by Flo-Pro, PP volatile organics by EPA method 8260B, PP semi-volatiles by EPA method 8270C and dioxin scan by EPA method 625SIM. Attachment 2 contains the soil and groundwater laboratory analytical reports. Table 1 summarizes the soil laboratory results and Table 2 summarizes the groundwater laboratory results.

Soil boring logs are included as Attachment 3. Well construction logs for the temporary wells are included as Attachment 4. Calibration logs are included in Attachment 5. Copies of the groundwater sampling logs are included in Attachment 6.

The laboratory analytical report shows the groundwater sample from TW-3 may exceed FDEP groundwater cleanup target levels (GCTL) for three carcinogenic PAHs. Due to the extremely low GCTLs, the laboratory report is qualified by the statement "Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL)". Although the laboratory does detect some small amount of these three PAHs, accurate quantitation cannot be achieved. Therefore, LAN does not consider these detections to be of concern or reportable exceedances to FDEP. No exceedances were identified in groundwater samples from TW-1 and TW-2. Soil boring and sediment samples in exceeded the Residential Criteria for arsenic but were below Commercial/Industrial Criteria. Arsenic concentrations in SB-2, the sample from the waste pile, was just below Commercial/Industrial Criteria for Soils. Arsenic can be naturally occurring in soils of this region. Due to the level of arsenic, LAN suggested additional delineation and testing of the fine black material/ash to determine the extent and chemical qualities of the ash material.

The additional Phase II borings and testing were conducted on February 22, 2022. A total of 22 soil borings were hand augured in the area suspected of having fine black material/ash buried. Six soil borings revealed that the ash is 1-2 feet thick over a 350 ft^2 area adjacent to the waste pile. LAN collected samples from the soil borings, as shown on Figure 2 of Attachment 1.

Soil samples were analyzed for 8-RCRA metals. The samples were placed in pre-preserved, laboratory-prepared sample containers, packed on ice, and delivered to the laboratory for analysis. Table 3 summarizes the laboratory results. The laboratory analytical report is included in Attachment 2. Table 4 shows the thickness and depth of the ash at the boring locations. Soil boring logs are included as Attachment 3. Soil sampling logs are included as Attachment 7.

The laboratory analytical report for additional soil testing shows that all samples are below regulatory standards (residential and industrial) for the parameters tested. Therefore, the suspected buried ash does not pose an environmental concern, as the purchaser intends to keep the property zoned and used for industrial purposes. The Phase II investigation concludes past property use identified in the Phase I did not cause impacts to the subject property. It is LAN's opinion that the RECs identified during the Phase I investigation are not environmental concerns to the site and pose no environmental liability if the subject parcel is purchased.

LAN appreciates the opportunity to provide environmental services for this project. Please do not hesitate to contact me if you have any questions regarding this letter.

Chris L. Callegari, P.G.
President – LAN Associates, Inc.

Attachments: **#1–Figures**

Figure 1 – Site Plan
Figure 2 – Soil Boring Locations & Extent of Ash

#2–Laboratory Summary Tables & Laboratory Analytical Reports

Table 1(A-H) – Soil Analytical Summary (Preliminary Sampling)
Table 2 (A-H) – Water Analytical Summary (Preliminary Sampling)
Table 3 – Soil Analytical Summary (Additional Sampling)
Soil & Groundwater Laboratory Analytical Report, February 14, 2022 (Preliminary Sampling)
Soil Laboratory Analytical Report, March 4, 2022 (Additional Sampling)

#3–Soil Boring Summary Table & Soil Boring Logs

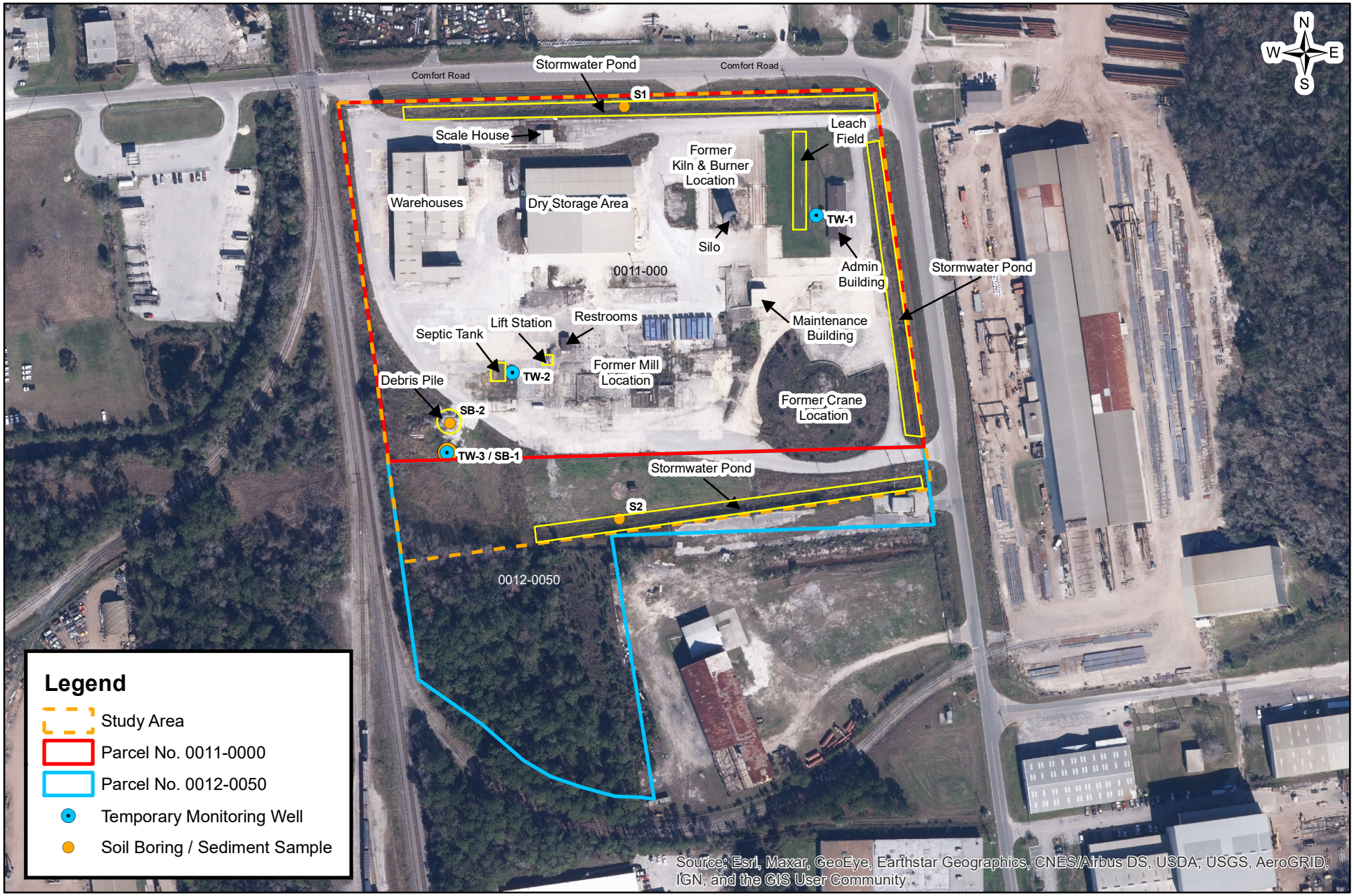
Table 4 – Soil Borings Summary (Additional Sampling)
Soil Boring Logs, January 28, 2022 (Preliminary Sampling)
Soil Boring Logs, February 22, 2022 (Additional Sampling)

#4–Well Construction Logs
#5–Calibration Logs
#6–Groundwater Sampling Logs
#7–Soil Sampling Logs

Attachment 1

Figure 1 – Site Plan

Figure 2 – Soil Boring Locations & Extent of Ash



LAN Associates, Inc.
Environmental Consulting
Engineering
Planning & Zoning

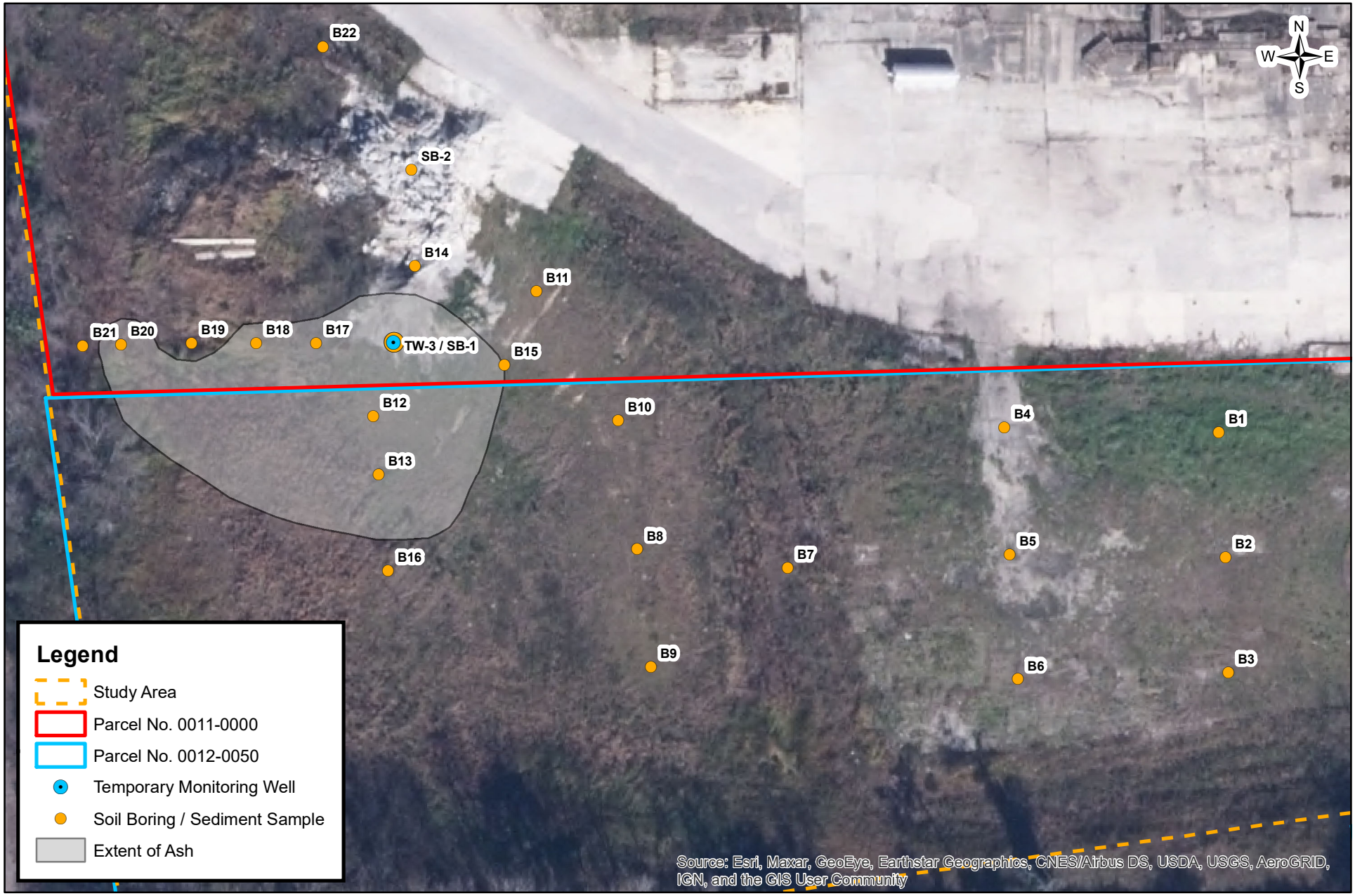
Property Boundary & Study Area Site Plan

234 Comfort Road
Palatka, Putnam County, FL 32177

0 90 180 360 540 720 Feet

1:3,500

Imagery: ESRI World Aerial



LAN Associates, Inc.
ENVIRONMENTAL CONSULTING
ENGINEERING
PLANNING & ZONING

Soil Boring Locations & Extent of Ash

234 Comfort Road
Palatka, Putnam County, FL 32177

0 15 30 60 90 120 Feet

1:600

Imagery: ESRI World Aerial

Attachment 2

Laboratory Summary Tables & Laboratory Analytical Reports

Table 1

Preliminary Phase II Sampling

Soil Analytical Results Summary

LAN Associates, Inc.
ENVIRONMENTAL CONSULTING
ENGINEERING
PLANNING & ZONING

Table 1A
Summary Laboratory Analysis - Soil Volatiles

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1,1,1-TRICHLOROETHANE	71-55-6	EPA 8260	mg/kg	730	3900	1.9	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,1,2,2-TETRACHLOROETHANE	79-34-5	EPA 8260	mg/kg	0.7	1.2	0.001	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,1,2-TRICHLOROETHANE	79-00-5	EPA 8260	mg/kg	1.4	2	0.03	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,1-DICHLOROETHANE	75-34-3	EPA 8260	mg/kg	390	2100	0.4	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,1-DICHLOROETHENE	75-35-4	EPA 8260	mg/kg	95	510	0.06	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,2,4-TRICHLOROBENZENE	120-82-1	EPA 8270	mg/kg	660	8500	5.3	0.13	U		0.072	U		0.07	U		0.084	U	
1,2-DICHLOROBENZENE	95-50-1	EPA 8260	mg/kg	880	5000	17	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,2-DICHLOROBENZENE	95-50-1	EPA 8270	mg/kg	880	5000	17	0.21	U		0.12	U		0.12	U		0.14	U	
1,2-DICHLOROETHANE	107-06-2	EPA 8260	mg/kg	0.5	0.7	0.01	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,2-DICHLOROPROPANE	78-87-5	EPA 8260	mg/kg	0.6	0.9	0.03	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,3-DICHLOROBENZENE	541-73-1	EPA 8260	mg/kg	380	2200	7	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,3-DICHLOROBENZENE	541-73-1	EPA 8270	mg/kg	380	2200	7	0.2	U		0.12	U		0.11	U		0.14	U	
1,4-DICHLOROBENZENE	106-46-7	EPA 8260	mg/kg	6.4	9.9	2.2	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
1,4-DICHLOROBENZENE	106-46-7	EPA 8270	mg/kg	6.4	9.9	2.2	0.2	U		0.11	U		0.11	U		0.13	U	
2-CHLOROETHYL VINYL ETHER	110-75-8	EPA 8260	mg/kg	N/A	N/A	N/A	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
ACROLEIN	107-02-8	EPA 8260	mg/kg	0.05	0.3	0.01	0.018	U		0.011	U		0.01	U		0.0087	U	
ACRYLONITRILE	107-13-1	EPA 8260	mg/kg	0.3	0.6	0.0003	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
BENZENE	71-43-2	EPA 8260	mg/kg	1.2	1.7	0.007	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
BROMODICHLOROMETHANE	75-27-4	EPA 8260	mg/kg	1.5	2.2	0.004	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
BROMOFORM	75-25-2	EPA 8260	mg/kg	48	93	0.03	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
BROMOMETHANE	74-83-9	EPA 8260	mg/kg	3.1	16	0.05	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
CARBON TETRACHLORIDE	56-23-5	EPA 8260	mg/kg	0.5	0.7	0.04	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
CHLOROBENZENE	108-90-7	EPA 8260	mg/kg	120	650	1.3	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
CHLOROETHANE	75-00-3	EPA 8260	mg/kg	3.9	5.4	0.06	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
CHLOROFORM	67-66-3	EPA 8260	mg/kg	0.4	0.6	0.4	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
CHLOROMETHANE	74-87-3	EPA 8260	mg/kg	4	5.7	0.01	0.0027	U		0.0016	U		0.0015	U		0.0013	U	
cis-1,2-DICHLOROETHENE	156-59-2	EPA 8260	mg/kg	33	180	0.4	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
cis-1,3-DICHLOROPROPENE	10061-01-5	EPA 8260	mg/kg	1.4	2.2	0.002	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
DIBROMOCHLOROMETHANE	124-48-1	EPA 8260	mg/kg	1.5	2.3	0.003	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
DICHLORODIFLUOROMETHANE	75-71-8	EPA 8260	mg/kg	77	410	44	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
ETHYLBENZENE	100-41-4	EPA 8260	mg/kg	1500	9200	0.6	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
HEXACHLOROBUTADIENE	87-68-3	EPA 8270	mg/kg	6.2	13	1	0.12	U		0.069	U		0.067	U		0.08	U	
METHYLENE CHLORIDE	75-09-2	EPA 8260	mg/kg	17	26	0.02	0.0027	U		0.0016	U		0.0015	U		0.0013	U	
NAPHTHALENE	91-20-3	EPA 8270	mg/kg	55	300	1.2	0.0051	U		0.0029	U		0.0028	U		0.0034	U	
TETRACHLOROETHENE	127-18-4	EPA 8260	mg/kg	8.8	18	0.03	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
TOLUENE	108-88-3	EPA 8260	mg/kg	7500	60000	0.5	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
trans-1,2-DICHLOROETHENE	156-60-5	EPA 8260	mg/kg	53	290	0.7	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
trans-1,3-DICHLOROPROPENE	10061-02-6	EPA 8260	mg/kg	1.4	2.2	0.002	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
TRICHLOROETHYLENE	79-01-6	EPA 8260	mg/kg	6.4	9.3	0.03	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
TRICHLOROFLUOROMETHANE	75-69-4	EPA 8260	mg/kg	270	1500	33	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
VINYL CHLORIDE	75-01-4	EPA 8260	mg/kg	0.2	0.8	0.007	0.0014	U		0.00082	U		0.00076	U		0.00065	U	
Xylenes- Total	1330-20-7	EPA 8260	mg/kg	130	700	0.2	0.0041	U		0.0025	U		0.0023	U		0.002	U	

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):
U Result was less than the Method Detection Limit (MDL)

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Table 1B
Summary Laboratory Analysis - Soil Carcinogenic PAHs

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
BENZO(a)ANTHRACENE	56-55-3	EPA 8270	mg/kg	N/A	N/A	0.8	0.01	I		0.0056	I		0.0049	U		0.0059	U	
BENZO(a)PYRENE	50-32-8	EPA 8270	mg/kg	0.1	0.7	8	0.013	U		0.0071	U		0.0069	U		0.0083	U	
BENZO(b)FLUORANTHENE	205-99-2	EPA 8270	mg/kg	N/A	N/A	2.4	0.0091	U		0.0052	U		0.005	U		0.006	U	
BENZO(k)FLUORANTHENE	207-08-9	EPA 8270	mg/kg	N/A	N/A	24	0.0087	U		0.005	U		0.0048	U		0.0058	U	
CHRYSENE	218-01-9	EPA 8270	mg/kg	N/A	N/A	77	0.0093	U		0.0053	U		0.0052	U		0.0062	U	
DIBENZ(a,h)ANTHRACENE	53-70-3	EPA 8270	mg/kg	N/A	N/A	0.7	0.0074	U		0.0042	U		0.0041	U		0.0049	U	
INDENO(1,2,3-c,d)PYRENE	193-39-5	EPA 8270	mg/kg	N/A	N/A	6.6	0.0089	I		0.0056	I		0.0045	U		0.0054	U	
Total Benzo(a)pyrene Equivalents	Total B(a)P	Calculation	mg/kg	0.1	0.7		0.013			0.0071			0.0062			0.0075		

Notes:

(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)

(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)

(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):

U	Result was less than the Method Detection Limit (MDL)
I	Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 1C
Summary Laboratory Analysis - Soil Non-Carcinogenic PAHs

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1-METHYLNAPHTHALENE	90-12-0	EPA 8270	mg/kg	200	1800	3.1	0.005	U		0.0029	U		0.0028	U		0.0033	U	
2-METHYLNAPHTHALENE	91-57-6	EPA 8270	mg/kg	210	2100	8.5	0.0049	U		0.0028	U		0.0027	U		0.0033	U	
ACENAPHTHENE	83-32-9	EPA 8270	mg/kg	2400	20000	2.1	0.0055	U		0.0032	U		0.0031	U		0.0037	U	
ACENAPHTHYLENE	208-96-8	EPA 8270	mg/kg	1800	20000	27	0.0073	U		0.0042	U		0.0041	U		0.0049	U	
ANTHRACENE	120-12-7	EPA 8270	mg/kg	21000	300000	2500	0.0076	U		0.0043	U		0.0042	U		0.005	U	
BENZO(g,h,i)PERYLENE	191-24-2	EPA 8270	mg/kg	2500	52000	32000	0.01	U		0.0058	U		0.0056	U		0.0068	U	
FLUORANTHENE	206-44-0	EPA 8270	mg/kg	3200	59000	1200	0.0081	U		0.0046	U		0.0045	U		0.0054	U	
FLUORENE	86-73-7	EPA 8270	mg/kg	2600	33000	160	0.0063	U		0.0036	U		0.0035	U		0.0042	U	
PHENANTHRENE	85-01-8	EPA 8270	mg/kg	2200	36000	250	0.0066	U		0.0038	U		0.0036	U		0.0044	U	
PYRENE	129-00-0	EPA 8270	mg/kg	2400	45000	880	0.01	I		0.005	U		0.0048	U		0.0058	U	

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):

U	Result was less than the Method Detection Limit (MDL)
I	Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 1D
Summary Laboratory Analysis - Soil TRPH

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
FL-PRO	TRPH	FDEP FL-PRO	mg/kg	460	2700	340	77			53			81			39		

Notes:

(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)

(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)

(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

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Table 1E
Summary Laboratory Analysis - Soil Metals

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
ANTIMONY	7440-36-0	EPA 6010	mg/kg	27	370	5.4	1.4	I		0.61	I		0.58	U		0.71	U	
ARSENIC	7440-38-2	EPA 6010	mg/kg	2.1	12	N/A	**6.2**		1	**11**		1	0.58	U		0.71	U	
BARIUM	7440-39-3	EPA 6010	mg/kg	120	130000	1600	43			23			11			15		
BERYLLIUM	7440-41-7	EPA 6010	mg/kg	120	1400	63	0.21	U		0.3	I		0.12	U		0.14	U	
CADMIUM	7440-43-9	EPA 6010	mg/kg	82	1700	7.5	0.69			0.52			0.058	U		0.071	U	
CHROMIUM	7440-47-3	EPA 6010	mg/kg	210	470	38	29			22			1.2			6.7		
LEAD	7439-92-1	EPA 6010	mg/kg	400	1400	N/A	21			10			5.7			5.9		
MERCURY	7439-97-6	EPA 7471	mg/kg	3	17	2.1	0.062			0.042			0.016			**2.9**		3
NICKEL	7440-02-0	EPA 6010	mg/kg	340	35000	130	8.4			8.2			1	I		1.6	I	
SELENIUM	7782-49-2	EPA 6010	mg/kg	440	11000	5.2	2.1	U		1.2	U		1.2	U		1.4	U	
SILVER	7440-22-4	EPA 6010	mg/kg	410	8200	17	0.43	U		0.24	U		0.23	U		0.28	U	
THALLIUM	7440-28-0	EPA 6010	mg/kg	6.1	150	2.8	6.4	U		3.6	U		3.5	U		4.2	U	

Notes:
BOLD = Exceeds one or more of the criteria
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):

U	Result was less than the Method Detection Limit (MDL)
I	Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 1F
Summary Laboratory Analysis - Soil Pest, Herbs, PCBs

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
PCB-1016	12674-11-2	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1221	11104-28-2	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1232	11141-16-5	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1242	53469-21-9	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1248	12672-29-6	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1254	11097-69-1	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCB-1260	11096-82-5	EPA 8082	mg/kg	N/A	N/A	N/A	0.054	U		0.03	U		0.029	U		0.036	U	
PCBs (or Aroclor mixture)	1336-36-3	Calculation	mg/kg	0.5	2.6	17	0.054	U		0.03	U		0.029	U		0.036	U	

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):
U Result was less than the Method Detection Limit (MDL)

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Table 1G
Summary Laboratory Analysis - Soil Semi-Volatiles

Project Name	Comfort Road Phase II		Sample Number				S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 10:05			1/28/2022 12:47			1/28/2022 12:00			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1,2-DIPHENYLHYDRAZINE	122-66-7	EPA 8270	mg/kg	1.1	4.8	0.002	0.31	U		0.18	U		0.17	U		0.21	U	
2,4,6-TRICHLOROPHENOL	88-06-2	EPA 8270	mg/kg	70	230	0.06	0.19	U		0.11	U		0.1	U		0.12	U	
2,4-DICHLOROPHENOL	120-83-2	EPA 8270	mg/kg	190	2400	0.003	0.13	U		0.075	U		0.073	U		0.088	U	
2,4-DIMETHYLPHENOL	105-67-9	EPA 8270	mg/kg	1300	18000	1.7	0.21	U		0.12	U		0.12	U		0.14	U	
2,4-DINITROPHENOL	51-28-5	EPA 8270	mg/kg	110	1200	0.06	0.13	U		0.075	U		0.072	U		0.087	U	
2,4-DINITROTOLUENE	121-14-2	EPA 8270	mg/kg	1.2	4.3	0.0004	0.16	U		0.094	U		0.091	U		0.11	U	
2,6-DINITROTOLUENE	606-20-2	EPA 8270	mg/kg	1.2	3.8	0.0004	0.17	U		0.096	U		0.093	U		0.11	U	
2-CHLORONAPHTHALENE	91-58-7	EPA 8270	mg/kg	5000	61000	260	0.24	U		0.14	U		0.13	U		0.16	U	
2-CHLOROPHENOL	95-57-8	EPA 8270	mg/kg	130	860	0.7	0.19	U		0.11	U		0.11	U		0.13	U	
2-NITROPHENOL	88-75-5	EPA 8270	mg/kg	N/A	N/A	N/A	0.14	U		0.078	U		0.076	U		0.091	U	
3,3-DICHLOROBENZIDINE	91-94-1	EPA 8270	mg/kg	2.1	9.9	0.003	0.2	U		0.11	U		0.11	U		0.13	U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	EPA 8270	mg/kg	8.4	180	0.4	0.14	U		0.083	U		0.08	U		0.096	U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	EPA 8270	mg/kg	N/A	N/A	N/A	0.17	U		0.098	U		0.095	U		0.11	U	
4-CHLORO-3-METHYLPHENOL	59-50-7	EPA 8270	mg/kg	600	8000	0.4	0.18	U		0.11	U		0.1	U		0.12	U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	EPA 8270	mg/kg	N/A	N/A	N/A	0.2	U		0.11	U		0.11	U		0.13	U	
4-NITROPHENOL	100-02-7	EPA 8270	mg/kg	560	7900	0.3	0.31	U		0.18	U		0.17	U		0.21	U	
BENZIDINE	92-87-5	EPA 8270	mg/kg	0.004	0.02	0.00002	0.076	U		0.043	U		0.042	U		0.051	U	
bis(2-CHLOROETHOXY) METHANE	111-91-1	EPA 8270	mg/kg	250	5700	63	0.26	U		0.15	U		0.15	U		0.18	U	
bis(2-CHLOROETHYL) ETHER	111-44-4	EPA 8270	mg/kg	0.3	0.5	0.0001	0.21	U		0.12	U		0.12	U		0.14	U	
bis(2-CHLOROISOPROPYL) ETHER	39638-32-9	EPA 8270	mg/kg	6	12	0.009	0.22	U		0.13	U		0.12	U		0.15	U	
bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	EPA 8270	mg/kg	72	390	3600	0.29	U		0.16	U		0.16	U		0.19	U	
BUTYL BENZYL PHTHALATE	85-68-7	EPA 8270	mg/kg	17000	380000	310	0.29	U		0.17	U		0.16	U		0.19	U	
DI-n-BUTYL PHTHALATE	84-74-2	EPA 8270	mg/kg	8200	170000	47	0.34	U		0.19	U		0.19	U		0.23	U	
DI-n-OCTYLPHTHALATE	117-84-0	EPA 8270	mg/kg	1700	39000	480000	0.29	U		0.17	U		0.16	U		0.19	U	
DIETHYL PHTHALATE	84-66-2	EPA 8270	mg/kg	61000	N/A	86	0.26	U		0.15	U		0.14	U		0.17	U	
DIMETHYL PHTHALATE	131-11-3	EPA 8270	mg/kg	690000	N/A	380	0.22	U		0.13	U		0.12	U		0.15	U	
HEXACHLOROBENZENE	118-74-1	EPA 8270	mg/kg	0.4	1.2	2.2	0.18	U		0.1	U		0.098	U		0.12	U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	EPA 8270	mg/kg	9.5	50	400	0.12	U		0.068	U		0.066	U		0.079	U	
HEXACHLOROETHANE	67-72-1	EPA 8270	mg/kg	38	87	0.2	0.2	U		0.12	U		0.11	U		0.14	U	
ISOPHORONE	78-59-1	EPA 8270	mg/kg	540	1200	0.2	0.19	U		0.11	U		0.11	U		0.13	U	
n-NITROSODI-n-PROPYLAMINE	621-64-7	EPA 8270	mg/kg	0.08	0.2	0.00005	0.056	U		0.032	U		0.031	U		0.037	U	
n-NITROSODIMETHYLAMINE	62-75-9	EPA 8270	mg/kg	0.009	0.02	0.000003	0.26	U		0.15	U		0.14	U		0.17	U	
n-NITROSODIPHENYLAMINE	86-30-6	EPA 8270	mg/kg	180	730	0.4	0.19	U		0.11	U		0.1	U		0.13	U	
NITROBENZENE	98-95-3	EPA 8270	mg/kg	18	140	0.02	0.29	U		0.17	U		0.16	U		0.19	U	
PENTACHLOROPHENOL	87-86-5	EPA 8270	mg/kg	7.2	28	0.03	0.12	U		0.071	U		0.068	U		0.082	U	
PHENOL	108-95-2	EPA 8270	mg/kg	500	220000	0.05	0.25	U		0.14	U		0.14	U		0.16	U	

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):
U Result was less than the Method Detection Limit (MDL)

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Table 1H
Summary Laboratory Analysis - Soil Dioxins as Total 2,3,7,8 - TCDD

Project Name	Comfort Road Phase II		Sample Number			S1			SB-2			SB-1			S2		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled			1/28/2022 11:00			1/28/2022 14:45			1/28/2022 10:05			1/28/2022 14:03		
Analyte	CAS #	Method	Units	RES(1)	INDUSTRIAL(2)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
2,3,7,8-TCDD	1746-01-6	SW846 8290A	mg/L	7.00E-06	0.00003	2.74E-07	J		2.83E-07	U		3.51E-07	U		4.50E-06		

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)

Analytical Results Qualifiers (Q):

U	Result was less than the Method Detection Limit (MDL)
J	Value is estimated

Table 2

Preliminary Phase II Sampling

Groundwater Analytical Results Summary

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Table 2A
Summary Laboratory Analysis - Water Volatiles

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1,1,1-TRICHLOROETHANE	71-55-6	EPA 8260	ug/L	200	2000	2000	0.5	U		0.5	U		0.5	U	
1,1,2,2-TETRACHLOROETHANE	79-34-5	EPA 8260	ug/L	0.2	2	20	0.2	U		0.2	U		0.2	U	
1,1,2-TRICHLOROETHANE	79-00-5	EPA 8260	ug/L	5	50	500	0.25	U		0.25	U		0.25	U	
1,1-DICHLOROETHANE	75-34-3	EPA 8260	ug/L	70	700	700	0.25	U		0.25	U		0.25	U	
1,1-DICHLOROETHENE	75-35-4	EPA 8260	ug/L	7	70	70	0.5	U		0.5	U		0.5	U	
1,2,4-TRICHLOROBENZENE	120-82-1	EPA 8270	ug/L	70	700	700	0.69	U		0.69	U		0.69	U	
1,2-DICHLOROBENZENE	95-50-1	EPA 8260	ug/L	600	6000	6000	0.5	U		0.5	U		0.5	U	
1,2-DICHLOROBENZENE	95-50-1	EPA 8270	ug/L	600	6000	6000	1.4	U		1.4	U		1.4	U	
1,2-DICHLOROETHANE	107-06-2	EPA 8260	ug/L	3	30	300	0.25	U		0.25	U		0.25	U	
1,2-DICHLOROPROPANE	78-87-5	EPA 8260	ug/L	5	50	500	0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE	541-73-1	EPA 8260	ug/L	210	2100	2100	0.5	U		0.5	U		0.5	U	
1,3-DICHLOROBENZENE	541-73-1	EPA 8270	ug/L	210	2100	2100	1	U		1	U		1	U	
1,4-DICHLOROBENZENE	106-46-7	EPA 8260	ug/L	N/A	N/A	N/A	0.5	U		0.5	U		0.5	U	
1,4-DICHLOROBENZENE	106-46-7	EPA 8270	ug/L	N/A	N/A	N/A	2	U		2	U		2	U	
2-CHLOROETHYL VINYL ETHER	110-75-8	EPA 8260	ug/L	N/A	N/A	N/A	0.5	U		0.5	U		0.5	U	
ACROLEIN	107-02-8	EPA 8260	ug/L	3.5	35	35	1.5	U		1.5	U		1.5	U	
ACRYLONITRILE	107-13-1	EPA 8260	ug/L	0.06	0.6	6	0.5	U		0.5	U		0.5	U	
BENZENE	71-43-2	EPA 8260	ug/L	1	10	100	0.25	U		0.25	U		0.25	U	
BROMODICHLOROMETHANE	75-27-4	EPA 8260	ug/L	0.6	6	60	0.5	U		0.5	U		0.5	U	
BROMOFORM	75-25-2	EPA 8260	ug/L	4.4	44	440	0.25	U		0.25	U		0.25	U	
BROMOMETHANE	74-83-9	EPA 8260	ug/L	9.8	98	98	0.5	U		0.5	U		0.5	U	
CARBON TETRACHLORIDE	56-23-5	EPA 8260	ug/L	3	30	300	0.25	U		0.25	U		0.25	U	
CHLOROBENZENE	108-90-7	EPA 8260	ug/L	100	1000	1000	0.5	U		0.5	U		0.5	U	
CHLOROETHANE	75-00-3	EPA 8260	ug/L	12	120	1200	0.5	U		0.5	U		0.5	U	
CHLOROFORM	67-66-3	EPA 8260	ug/L	70	700	700	0.5	U		0.5	U		0.5	U	
CHLOROMETHANE	74-87-3	EPA 8260	ug/L	2.7	27	270	0.25	U		0.25	U		0.25	U	
cis-1,2-DICHLOROETHENE	156-59-2	EPA 8260	ug/L	70	700	700	0.5	U		0.5	U		0.5	U	
cis-1,3-DICHLOROPROPENE	10061-01-5	EPA 8260	ug/L	0.4	4	40	0.2	U		0.2	U		0.2	U	
DIBROMOCHLOROMETHANE	124-48-1	EPA 8260	ug/L	0.4	4	40	0.2	U		0.2	U		0.2	U	
DICHLORODIFLUOROMETHANE	75-71-8	EPA 8260	ug/L	1400	14000	14000	0.5	U		0.5	U		0.5	U	
ETHYLBENZENE	100-41-4	EPA 8260	ug/L	30	300	300	0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE	87-68-3	EPA 8270	ug/L	0.4	4	40	1.3	U		1.3	U		1.3	U	
METHYL tert-BUTYL ETHER	1634-04-4	EPA 8260	ug/L	20	200	200	0.25	U		0.25	U		0.25	U	
METHYLENE CHLORIDE	75-09-2	EPA 8260	ug/L	5	50	500	1.2	U		1.2	U		1.2	U	
NAPHTHALENE	91-20-3	EPA 8270	ug/L	14	140	140	0.048	U		0.048	U		0.048	U	
TETRACHLOROETHENE	127-18-4	EPA 8260	ug/L	3	30	300	0.25	U		0.25	U		0.25	U	
TOLUENE	108-88-3	EPA 8260	ug/L	40	400	400	0.25	U		0.25	U		0.25	U	
trans-1,2-DICHLOROETHENE	156-60-5	EPA 8260	ug/L	100	1000	1000	0.5	U		0.5	U		0.5	U	
trans-1,3-DICHLOROPROPENE	10061-02-6	EPA 8260	ug/L	0.4	4	40	0.2	U		0.2	U		0.2	U	
TRICHLOROETHYLENE	79-01-6	EPA 8260	ug/L	3	30	300	0.25	U		0.25	U		0.25	U	
TRICHLOROFLUOROMETHANE	75-69-4	EPA 8260	ug/L	2100	21000	21000	0.5	U		0.5	U		0.5	U	
VINYL CHLORIDE	75-01-4	EPA 8260	ug/L	1	10	100	0.25	U		0.25	U		0.25	U	
Xylenes- Total	1330-20-7	EPA 8260	ug/L	20	200	200	0.75	U		0.75	U		0.75	U	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)

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Table 2B
Summary Laboratory Analysis - Water Carcinogenic PAHs

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
BENZO(a)ANTHRACENE	56-55-3	EPA 8270	ug/L	0.05	0.5	5	0.012	U		0.012	U		0.012	U	
BENZO(a)PYRENE	50-32-8	EPA 8270	ug/L	0.2	2	20	0.037	U		0.037	U		0.037	U	
BENZO(b)FLUORANTHENE	205-99-2	EPA 8270	ug/L	0.05	0.5	5	0.012	U		0.012	U		**0.073**	I	1
BENZO(k)FLUORANTHENE	207-08-9	EPA 8270	ug/L	0.5	5	50	0.048	U		0.048	U		0.094	I	
CHRYSENE	218-01-9	EPA 8270	ug/L	4.8	48	480	0.033	U		0.033	U		0.033	U	
DIBENZ(a,h)ANTHRACENE	53-70-3	EPA 8270	ug/L	0.005	0.05	0.5	0.024	U		0.024	U		**0.14**	I	1, 4
INDENO(1,2,3-c,d)PYRENE	193-39-5	EPA 8270	ug/L	0.05	0.5	5	0.011	U		0.011	U		**0.15**	I	1

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)
I = Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 2C
Summary Laboratory Analysis - Water Non-Carcinogenic PAHs

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1-METHYLNAPHTHALENE	90-12-0	EPA 8270	ug/L	28	280	280	0.05	U		0.05	U		0.05	U	
2-METHYLNAPHTHALENE	91-57-6	EPA 8270	ug/L	28	280	280	0.049	U		0.049	U		0.049	U	
ACENAPHTHENE	83-32-9	EPA 8270	ug/L	20	200	200	0.04	U		0.04	U		0.04	U	
ACENAPHTHYLENE	208-96-8	EPA 8270	ug/L	210	2100	2100	0.042	U		0.042	U		0.042	U	
ANTHRACENE	120-12-7	EPA 8270	ug/L	2100	21000	21000	0.035	U		0.035	U		0.035	U	
BENZO(g,h,i)PERYLENE	191-24-2	EPA 8270	ug/L	210	2100	2100	0.048	U		0.048	U		0.1	I	
FLUORANTHENE	206-44-0	EPA 8270	ug/L	280	2800	2800	0.037	U		0.037	U		0.037	U	
FLUORENE	86-73-7	EPA 8270	ug/L	280	2800	2800	0.038	U		0.038	U		0.038	U	
PHENANTHRENE	85-01-8	EPA 8270	ug/L	210	2100	2100	0.04	U		0.04	U		0.04	U	
PYRENE	129-00-0	EPA 8270	ug/L	210	2100	2100	0.036	U		0.036	U		0.036	U	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)
I = Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 2D
Summary Laboratory Analysis - Water TRPH

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
FL-PRO	TRPH	FDEP FL-PRO	ug/L	5000	50000	50000	600	U		600	U		1000		

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)

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Table 2E
Summary Laboratory Analysis - Water Metals

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
ANTIMONY	7440-36-0	EPA 6020 Tot	ug/L	6	60	60	1	U		1	U		1	U	
ARSENIC	7440-38-2	EPA 6020 Tot	ug/L	10	100	100	0.97	I		1.1			1.1		
BARIUM	7440-39-3	EPA 6020 Tot	ug/L	2000	20000	20000	20			54			90		
BERYLLIUM	7440-41-7	EPA 6020 Tot	ug/L	4	40	40	1	U		1	U		1	U	
CADMIUM	7440-43-9	EPA 6020 Tot	ug/L	5	50	50	0.25	U		0.25	U		0.25	U	
CHROMIUM	7440-47-3	EPA 6020 Tot	ug/L	100	1000	1000	0.51	I		8.4			3.2		
LEAD	7439-92-1	EPA 6020 Tot	ug/L	15	150	150	0.5	U		7.6			1.4	I	
MERCURY	7439-97-6	EPA 7470	ug/L	2	20	20	0.011	U		0.041	I		0.011	U	
NICKEL	7440-02-0	EPA 6020 Tot	ug/L	100	1000	1000	1.2	U		2.2	I		2.9	I	
SELENIUM	7782-49-2	EPA 6020 Tot	ug/L	50	500	500	1.2	U		1.2	U		1.2	U	
SILVER	7440-22-4	EPA 6020 Tot	ug/L	100	1000	1000	0.5	U		0.5	U		0.5	U	
THALLIUM	7440-28-0	EPA 6020 Tot	ug/L	2	20	20	0.25	U		0.25	U		0.29	I	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)
I = Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

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Table 2F
Summary Laboratory Analysis - Water Pest, Herbs, PCBs

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (4)	NADC (5)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
PCB-1016	12674-11-2	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1221	11104-28-2	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1232	11141-16-5	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1242	53469-21-9	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1248	12672-29-6	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1254	11097-69-1	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB-1260	11096-82-5	EPA 8082	ug/L	N/A	N/A	N/A	0.12	U		0.12	U		0.12	U	
PCB, Total	1336-36-3	Calculation	ug/L	0.5		50	0.12	U		0.12	U		0.12	U	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)

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Table 1G
Summary Laboratory Analysis - Water Semi-Volatiles

Project Name	Comfort Road Phase II		Sample Number				TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL (1)	GLYPQ (2)	NADC (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
1,2-DIPHENYLHYDRAZINE	122-66-7	EPA 8270	ug/L	0.04	0.4	4	0.96	U		0.96	U		0.96	U	
2,4,6-TRICHLOROPHENOL	88-06-2	EPA 8270	ug/L	3.2	32	320	1.4	U		1.4	U		1.4	U	
2,4-DICHLOROPHENOL	120-83-2	EPA 8270	ug/L	0.3	3	3	0.9	U		0.9	U		0.9	U	
2,4-DIMETHYLPHENOL	105-67-9	EPA 8270	ug/L	140	1400	1400	2.6	U		2.6	U		2.6	U	
2,4-DINITROPHENOL	51-28-5	EPA 8270	ug/L	14	140	140	1.1	U		1.1	U		1.1	U	
2,4-DINITROTOLUENE	121-14-2	EPA 8270	ug/L	0.05	0.5	5	1.8	U		1.8	U		1.8	U	
2,6-DINITROTOLUENE	606-20-2	EPA 8270	ug/L	0.05	0.5	5	2	U		2	U		2	U	
2-CHLORONAPHTHALENE	91-58-7	EPA 8270	ug/L	560	5600	5600	1.7	U		1.7	U		1.7	U	
2-CHLOROPHENOL	95-57-8	EPA 8270	ug/L	35	350	350	1.5	U		1.5	U		1.5	U	
2-NITROPHENOL	88-75-5	EPA 8270	ug/L	N/A	N/A	N/A	0.63	U		0.63	U		0.63	U	
3,3-DICHLOROBENZIDINE	91-94-1	EPA 8270	ug/L	0.08	0.8	8	1.3	U		1.3	U		1.3	U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	EPA 8270	ug/L	N/A	N/A	7	1.2	U		1.2	U		1.2	U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	EPA 8270	ug/L	N/A	N/A	N/A	1.1	U		1.1	U		1.1	U	
4-CHLORO-3-METHYLPHENOL	59-50-7	EPA 8270	ug/L	63	630	630	0.63	U		0.63	U		0.63	U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	EPA 8270	ug/L	N/A	N/A	N/A	1.6	U		1.6	U		1.6	U	
4-NITROPHENOL	100-02-7	EPA 8270	ug/L	56	560	560	2.9	U		2.9	U		2.9	U	
BENZIDINE	92-87-5	EPA 8270	ug/L	0.0002	0.002	0.02	1.2	U		1.2	U		1.2	U	
bis(2-CHLOROETHOXY) METHANE	111-91-1	EPA 8270	ug/L	N/A	N/A	N/A	1.2	U		1.2	U		1.2	U	
bis(2-CHLOROETHYL) ETHER	111-44-4	EPA 8270	ug/L	0.03	0.3	3	1.5	U		1.5	U		1.5	U	
bis(2-CHLOROISOPROPYL) ETHER	39638-32-9	EPA 8270	ug/L	0.5	5	50	1.4	U		1.4	U		1.4	U	
bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	EPA 8270	ug/L	6	60	600	2	U		2	U		2	U	
BUTYL BENZYL PHTHALATE	85-68-7	EPA 8270	ug/L	140	1400	1400	1.1	U		1.1	U		1.1	U	
DI-n-BUTYL PHTHALATE	84-74-2	EPA 8270	ug/L	700	7000	7000	0.88	U		0.88	U		0.88	U	
DI-n-OCTYLPHTHALATE	117-84-0	EPA 8270	ug/L	140	1400	1400	1.2	U		1.2	U		1.2	U	
DIETHYL PHTHALATE	84-66-2	EPA 8270	ug/L	5600	56000	56000	2.1	U		2.1	U		2.1	U	
DIMETHYL PHTHALATE	131-11-3	EPA 8270	ug/L	70000	700000	700000	1.8	U		1.8	U		1.8	U	
HEXACHLOROBENZENE	118-74-1	EPA 8270	ug/L	1	10	100	0.99	U		0.99	U		0.99	U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	EPA 8270	ug/L	50	500	500	1	U		1	U		1	U	
HEXACHLOROETHANE	67-72-1	EPA 8270	ug/L	2.5	25	250	1.2	U		1.2	U		1.2	U	
ISOPHORONE	78-59-1	EPA 8270	ug/L	37	370	3700	1.1	U		1.1	U		1.1	U	
n-NITROSODI-n-PROPYLAMINE	621-64-7	EPA 8270	ug/L	0.005	0.05	0.5	2.2	U		2.2	U		2.2	U	
n-NITROSODIMETHYLAMINE	62-75-9	EPA 8270	ug/L	0.0007	0.007	0.07	0.93	U		0.93	U		0.93	U	
n-NITROSODIPHENYLAMINE	86-30-6	EPA 8270	ug/L	7.1	71	710	2.1	U		2.1	U		2.1	U	
NITROBENZENE	98-95-3	EPA 8270	ug/L	3.5	35	35	1.1	U		1.1	U		1.1	U	
PENTACHLOROPHENOL	87-86-5	EPA 8270	ug/L	1	10	100	0.95	U		0.95	U		0.95	U	
PHENOL	108-95-2	EPA 8270	ug/L	10	100	100	0.54	U		0.54	U		0.54	U	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)
(2) Groundwater Low Yield Poor Quality Criteria (Table I, Chapter 62-777 FAC)
(3) Natural Attenuation Default Concentration (Table V, 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)

LAN Associates, Inc.
Environmental Consulting
Engineering
Planning & Zoning

Table 2H
Summary Laboratory Analysis - Water Dioxins as Total 2,3,7,8 - TCDD

Project Name	Comfort Road Phase II		Sample Number		TW-1			TW-2			TW-3		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled		1/28/2022 11:00			1/28/2022 13:10			1/28/2022 14:45		
Analyte	CAS #	Method	Units	GCTL(1)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
2,3,7,8-TCDD	1746-01-6	SW846 8290A	mg/L	3E-08	2.00E-09	U		2.74E-09	U		2.53E-09	U	

Notes:
(1) Groundwater Cleanup Target Level (Table I, Chapter 62-777 FAC)

Analytical Results Qualifiers (Q):
U = Result was less than the Method Detection Limit (MDL)

Table 3

Additional Phase II Sampling

Soil Analytical Results Summary

LAN Associates, Inc.
Environmental Consulting
Engineering
Planning & Zoning

Table 3
Summary Laboratory Analysis - Soil Metals

Project Name	Comfort Road Phase II		Sample Number				SS-1			SS-2			SS-3			SS-4			SS-5			SS-6		
Site Name/Location	234 Comfort Road, Palatka, FL 32177		Date/ Time Sampled				2/22/2022 12:46			2/22/2022 12:50			2/22/2022 12:55			2/22/2022 13:02			2/22/2022 13:06			2/22/2022 13:16		
Analyte	CAS #	Method	Units	RES (1)	COM (2)	LGW (3)	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds	Result	Qual	Exceeds
ARSENIC	7440-38-2	EPA 6010	mg/kg	2.1	12	N/A	0.67	U		0.68	U		0.59	U		0.54	U		0.57	U		0.62	U	
BARIUM	7440-39-3	EPA 6010	mg/kg	120	130000	1600	19			17			16			8.6			13			11		
CADMIUM	7440-43-9	EPA 6010	mg/kg	82	1700	7.5	0.75			0.11	I		0.074	I		0.054	U		0.063	I		0.062	U	
CHROMIUM	7440-47-3	EPA 6010	mg/kg	210	470	38	8			8.6			7.1			4.9			6.9			2.9		
LEAD	7439-92-1	EPA 6010	mg/kg	400	1400	N/A	6.3			9.7			5.5			3.3			4.8			5.7		
MERCURY	7439-97-6	EPA 7471	mg/kg	3	17	2.1	0.067			0.22			0.036			0.028			0.034			0.023		
SELENIUM	7782-49-2	EPA 6010	mg/kg	440	11000	5.2	1.3	U		1.4	U		1.2	U		1.1	U		1.1	U		1.2	U	
SILVER	7440-22-4	EPA 6010	mg/kg	410	8200	17	0.27	U		0.27	U		0.24	U		0.22	U		0.23	U		0.25	U	

Notes:
(1) Residential Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Residential Soils)
(2) Commerical/ Industrial Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels for Commerical/Industrial Soils)
(3) Groundwater Leachabiliy Criteria (Chapter 62-777 Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria)

Analytical Results Qualifiers (Q):
U Result was less than the Method Detection Limit (MDL)
I Result was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

Preliminary Phase II Sampling

Soil & Groundwater Laboratory Analytical Report

February 14, 2022

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FINAL

Workorder: 243 Comfort Road (J2201355)

February 14, 2022

Chris Callegari
LAN Associates
88 Riberia Street, Suite 400
Saint Augustine, FL 32084

RE: Workorder: J2201355 243 Comfort Road

Dear Chris Callegari:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday January 28, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Gunsaulies

Paul Gunsaulies
PGunsaulies@aellab.com

Certificate of Analysis

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FINAL

Workorder: 243 Comfort Road (J2201355)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
J2201355001	S1	SO	FL-PRO	01/28/2022 10:05	01/28/2022 16:05	1
J2201355001	S1	SO	SM 2540G	01/28/2022 10:05	01/28/2022 16:05	1
J2201355001	S1	SO	SW-846 6010	01/28/2022 10:05	01/28/2022 16:05	11
J2201355001	S1	SO	SW-846 7471A	01/28/2022 10:05	01/28/2022 16:05	1
J2201355001	S1	SO	SW-846 8082A	01/28/2022 10:05	01/28/2022 16:05	7
J2201355001	S1	SO	SW-846 8260B	01/28/2022 10:05	01/28/2022 16:05	36
J2201355001	S1	SO	SW-846 8270C	01/28/2022 10:05	01/28/2022 16:05	59
J2201355002	TW-1	WA	FL-PRO	01/28/2022 11:00	01/28/2022 16:05	1
J2201355002	TW-1	WA	SW-846 6020	01/28/2022 11:00	01/28/2022 16:05	11
J2201355002	TW-1	WA	SW-846 7470A	01/28/2022 11:00	01/28/2022 16:05	1
J2201355002	TW-1	WA	SW-846 8082A	01/28/2022 11:00	01/28/2022 16:05	7
J2201355002	TW-1	WA	SW-846 8260B	01/28/2022 11:00	01/28/2022 16:05	37
J2201355002	TW-1	WA	SW-846 8270C	01/28/2022 11:00	01/28/2022 16:05	59
J2201355003	SB-2	SO	FL-PRO	01/28/2022 12:47	01/28/2022 16:05	1
J2201355003	SB-2	SO	SM 2540G	01/28/2022 12:47	01/28/2022 16:05	1
J2201355003	SB-2	SO	SW-846 6010	01/28/2022 12:47	01/28/2022 16:05	11
J2201355003	SB-2	SO	SW-846 7471A	01/28/2022 12:47	01/28/2022 16:05	1
J2201355003	SB-2	SO	SW-846 8082A	01/28/2022 12:47	01/28/2022 16:05	7
J2201355003	SB-2	SO	SW-846 8260B	01/28/2022 12:47	01/28/2022 16:05	36
J2201355003	SB-2	SO	SW-846 8270C	01/28/2022 12:47	01/28/2022 16:05	59
J2201355004	SB-1	SO	FL-PRO	01/28/2022 12:00	01/28/2022 16:05	1
J2201355004	SB-1	SO	SM 2540G	01/28/2022 12:00	01/28/2022 16:05	1
J2201355004	SB-1	SO	SW-846 6010	01/28/2022 12:00	01/28/2022 16:05	11
J2201355004	SB-1	SO	SW-846 7471A	01/28/2022 12:00	01/28/2022 16:05	1
J2201355004	SB-1	SO	SW-846 8082A	01/28/2022 12:00	01/28/2022 16:05	7
J2201355004	SB-1	SO	SW-846 8260B	01/28/2022 12:00	01/28/2022 16:05	36
J2201355004	SB-1	SO	SW-846 8270C	01/28/2022 12:00	01/28/2022 16:05	59
J2201355005	TW-2	WA	FL-PRO	01/28/2022 13:10	01/28/2022 16:05	1
J2201355005	TW-2	WA	SW-846 6020	01/28/2022 13:10	01/28/2022 16:05	11
J2201355005	TW-2	WA	SW-846 7470A	01/28/2022 13:10	01/28/2022 16:05	1
J2201355005	TW-2	WA	SW-846 8082A	01/28/2022 13:10	01/28/2022 16:05	7
J2201355005	TW-2	WA	SW-846 8260B	01/28/2022 13:10	01/28/2022 16:05	37
J2201355005	TW-2	WA	SW-846 8270C	01/28/2022 13:10	01/28/2022 16:05	59
J2201355006	S2	SO	FL-PRO	01/28/2022 14:03	01/28/2022 16:05	1
J2201355006	S2	SO	SM 2540G	01/28/2022 14:03	01/28/2022 16:05	1

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FINAL

Workorder: 243 Comfort Road (J2201355)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
J2201355006	S2	SO	SW-846 6010	01/28/2022 14:03	01/28/2022 16:05	11
J2201355006	S2	SO	SW-846 7471A	01/28/2022 14:03	01/28/2022 16:05	1
J2201355006	S2	SO	SW-846 8082A	01/28/2022 14:03	01/28/2022 16:05	7
J2201355006	S2	SO	SW-846 8260B	01/28/2022 14:03	01/28/2022 16:05	36
J2201355006	S2	SO	SW-846 8270C	01/28/2022 14:03	01/28/2022 16:05	59
J2201355007	TW-3	WA	FL-PRO	01/28/2022 14:45	01/28/2022 16:05	1
J2201355007	TW-3	WA	SW-846 6020	01/28/2022 14:45	01/28/2022 16:05	11
J2201355007	TW-3	WA	SW-846 7470A	01/28/2022 14:45	01/28/2022 16:05	1
J2201355007	TW-3	WA	SW-846 8082A	01/28/2022 14:45	01/28/2022 16:05	7
J2201355007	TW-3	WA	SW-846 8260B	01/28/2022 14:45	01/28/2022 16:05	37
J2201355007	TW-3	WA	SW-846 8270C	01/28/2022 14:45	01/28/2022 16:05	59

Certificate of Analysis

NELAP Accredited E82574

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

Lab Qualifiers

J	DOH Certification #E82574 (FL NELAC) AEL-Jacksonville

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355001 **Date Collected:** 01/28/2022 10:05 **Matrix:** Soil
Sample ID: S1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Antimony	**1.4 I**	mg/Kg	4.3	1.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Arsenic	**6.2**	mg/Kg	4.3	1.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Barium	**43**	mg/Kg	4.3	1.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Beryllium	0.21 U	mg/Kg	0.85	0.21	1	02/02/2022 11:25	02/02/2022 17:52	J
Cadmium	**0.69**	mg/Kg	0.43	0.11	1	02/02/2022 11:25	02/02/2022 17:52	J
Chromium	**29**	mg/Kg	1.7	0.43	1	02/02/2022 11:25	02/02/2022 17:52	J
Lead	**21**	mg/Kg	4.3	1.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Nickel	**8.4**	mg/Kg	4.3	1.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Selenium	2.1 U	mg/Kg	8.5	2.1	1	02/02/2022 11:25	02/02/2022 17:52	J
Silver	0.43 U	mg/Kg	1.7	0.43	1	02/02/2022 11:25	02/02/2022 17:52	J
Thallium	6.4 U	mg/Kg	26	6.4	1	02/02/2022 11:25	02/02/2022 17:52	J
METALS (SW-846 7471A)								
Mercury	**0.062**	mg/Kg	0.0094	0.0024	1	02/08/2022 11:56	02/08/2022 15:26	J
SEMIVOLATILES (FL-PRO)								
TPH	**77**	mg/Kg	73	42	2	02/03/2022 13:00	02/05/2022 04:43	J
SEMIVOLATILES (SW-846 3550B/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1221 (PCB-1221)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1232 (PCB-1232)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1242 (PCB-1242)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1248 (PCB-1248)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1254 (PCB-1254)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
Aroclor 1260 (PCB-1260)	0.054 U	mg/Kg	0.22	0.054	1	02/04/2022 09:00	02/09/2022 06:13	J
SEMIVOLATILES (SW-846 3550B/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.13 U	mg/Kg	0.36	0.13	1	02/08/2022 11:00	02/10/2022 15:01	J
1,2-Dichlorobenzene	0.21 U	mg/Kg	0.36	0.21	1	02/08/2022 11:00	02/10/2022 15:01	J
1,2-Diphenylhydrazine	0.31 U	mg/Kg	0.36	0.31	1	02/08/2022 11:00	02/10/2022 15:01	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355001 **Date Collected:** 01/28/2022 10:05 **Matrix:** Soil
Sample ID: S1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	0.20 U	mg/Kg	0.36	0.20	1	02/08/2022 11:00	02/10/2022 15:01	J
1,4-Dichlorobenzene	0.20 U	mg/Kg	0.36	0.20	1	02/08/2022 11:00	02/10/2022 15:01	J
1-Methylnaphthalene	0.0050 U	mg/Kg	0.014	0.0050	1	02/08/2022 11:00	02/10/2022 15:01	J
2,4,6-Trichlorophenol	0.19 U	mg/Kg	0.36	0.19	1	02/08/2022 11:00	02/10/2022 15:01	J
2,4-Dichlorophenol	0.13 U	mg/Kg	0.36	0.13	1	02/08/2022 11:00	02/10/2022 15:01	J
2,4-Dimethylphenol	0.21 U	mg/Kg	0.36	0.21	1	02/08/2022 11:00	02/10/2022 15:01	J
2,4-Dinitrophenol	0.13 U	mg/Kg	0.71	0.13	1	02/08/2022 11:00	02/10/2022 15:01	J
2,4-Dinitrotoluene (2,4-DNT)	0.16 U	mg/Kg	0.36	0.16	1	02/08/2022 11:00	02/10/2022 15:01	J
2,6-Dinitrotoluene (2,6-DNT)	0.17 U	mg/Kg	0.36	0.17	1	02/08/2022 11:00	02/10/2022 15:01	J
2-Chloronaphthalene	0.24 U	mg/Kg	0.36	0.24	1	02/08/2022 11:00	02/10/2022 15:01	J
2-Chlorophenol	0.19 U	mg/Kg	0.36	0.19	1	02/08/2022 11:00	02/10/2022 15:01	J
2-Methyl-4,6-dinitrophenol	0.14 U	mg/Kg	0.71	0.14	1	02/08/2022 11:00	02/10/2022 15:01	J
2-Methylnaphthalene	0.0049 U	mg/Kg	0.014	0.0049	1	02/08/2022 11:00	02/10/2022 15:01	J
2-Nitrophenol	0.14 U	mg/Kg	0.36	0.14	1	02/08/2022 11:00	02/10/2022 15:01	J
3,3`-Dichlorobenzidine	0.20 U	mg/Kg	0.36	0.20	1	02/08/2022 11:00	02/10/2022 15:01	J
4-Bromophenyl Phenyl Ether	0.17 U	mg/Kg	0.36	0.17	1	02/08/2022 11:00	02/10/2022 15:01	J
4-Chloro-3-methylphenol	0.18 U	mg/Kg	0.36	0.18	1	02/08/2022 11:00	02/10/2022 15:01	J
4-Chlorophenyl Phenyl Ether	0.20 U	mg/Kg	0.36	0.20	1	02/08/2022 11:00	02/10/2022 15:01	J
4-Nitrophenol	0.31 U	mg/Kg	0.36	0.31	1	02/08/2022 11:00	02/10/2022 15:01	J
Acenaphthene	0.0055 U	mg/Kg	0.014	0.0055	1	02/08/2022 11:00	02/10/2022 15:01	J
Acenaphthylene	0.0073 U	mg/Kg	0.014	0.0073	1	02/08/2022 11:00	02/10/2022 15:01	J
Anthracene	0.0076 U	mg/Kg	0.014	0.0076	1	02/08/2022 11:00	02/10/2022 15:01	J
Benzidine	0.076 U	mg/Kg	0.36	0.076	1	02/08/2022 11:00	02/10/2022 15:01	J
Benzo[a]anthracene	**0.010 I**	mg/Kg	0.014	0.0089	1	02/08/2022 11:00	02/10/2022 15:01	J
Benzo[a]pyrene	0.013 U	mg/Kg	0.014	0.013	1	02/08/2022 11:00	02/10/2022 15:01	J
Benzo[b]fluoranthene	0.0091 U	mg/Kg	0.014	0.0091	1	02/08/2022 11:00	02/10/2022 15:01	J
Benzo[g,h,i]perylene	0.010 U	mg/Kg	0.014	0.010	1	02/08/2022 11:00	02/10/2022 15:01	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355001 **Date Collected:** 01/28/2022 10:05 **Matrix:** Soil
Sample ID: S1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.0087 U	mg/Kg	0.014	0.0087	1	02/08/2022 11:00	02/10/2022 15:01	J
Butyl benzyl phthalate	0.29 U	mg/Kg	0.36	0.29	1	02/08/2022 11:00	02/10/2022 15:01	J
Chrysene	0.0093 U	mg/Kg	0.014	0.0093	1	02/08/2022 11:00	02/10/2022 15:01	J
Di-n-Butyl Phthalate	0.34 U	mg/Kg	0.36	0.34	1	02/08/2022 11:00	02/10/2022 15:01	J
Di-n-octyl Phthalate	0.29 U	mg/Kg	0.36	0.29	1	02/08/2022 11:00	02/10/2022 15:01	J
Dibenzo[a,h]anthracene	0.0074 U	mg/Kg	0.36	0.0074	1	02/08/2022 11:00	02/10/2022 15:01	J
Diethyl phthalate	0.26 U	mg/Kg	0.36	0.26	1	02/08/2022 11:00	02/10/2022 15:01	J
Dimethyl phthalate	0.22 U	mg/Kg	0.71	0.22	1	02/08/2022 11:00	02/10/2022 15:01	J
Fluoranthene	0.0081 U	mg/Kg	0.014	0.0081	1	02/08/2022 11:00	02/10/2022 15:01	J
Fluorene	0.0063 U	mg/Kg	0.014	0.0063	1	02/08/2022 11:00	02/10/2022 15:01	J
Hexachlorobenzene	0.18 U	mg/Kg	0.36	0.18	1	02/08/2022 11:00	02/10/2022 15:01	J
Hexachlorobutadiene	0.12 U	mg/Kg	0.36	0.12	1	02/08/2022 11:00	02/10/2022 15:01	J
Hexachlorocyclopentadiene	0.12 U	mg/Kg	0.36	0.12	1	02/08/2022 11:00	02/10/2022 15:01	J
Hexachloroethane	0.20 U	mg/Kg	0.36	0.20	1	02/08/2022 11:00	02/10/2022 15:01	J
Indeno(1,2,3-cd)pyrene	**0.0089 I**	mg/Kg	0.014	0.0081	1	02/08/2022 11:00	02/10/2022 15:01	J
Isophorone	0.19 U	mg/Kg	0.36	0.19	1	02/08/2022 11:00	02/10/2022 15:01	J
N-Nitrosodi-n-propylamine	0.056 U	mg/Kg	0.36	0.056	1	02/08/2022 11:00	02/10/2022 15:01	J
N-Nitrosodimethylamine	0.26 U	mg/Kg	0.36	0.26	1	02/08/2022 11:00	02/10/2022 15:01	J
N-Nitrosodiphenylamine	0.19 U	mg/Kg	0.36	0.19	1	02/08/2022 11:00	02/10/2022 15:01	J
Naphthalene	0.0051 U	mg/Kg	0.014	0.0051	1	02/08/2022 11:00	02/10/2022 15:01	J
Nitrobenzene	0.29 U	mg/Kg	0.36	0.29	1	02/08/2022 11:00	02/10/2022 15:01	J
Pentachlorophenol	0.12 U	mg/Kg	0.36	0.12	1	02/08/2022 11:00	02/10/2022 15:01	J
Phenanthrene	0.0066 U	mg/Kg	0.014	0.0066	1	02/08/2022 11:00	02/10/2022 15:01	J
Phenol	0.25 U	mg/Kg	0.36	0.25	1	02/08/2022 11:00	02/10/2022 15:01	J
Pyrene	**0.010 I**	mg/Kg	0.014	0.0088	1	02/08/2022 11:00	02/10/2022 15:01	J
bis(2-Chloroethoxy)methane	0.26 U	mg/Kg	0.36	0.26	1	02/08/2022 11:00	02/10/2022 15:01	J
bis(2-Chloroethyl)Ether	0.21 U	mg/Kg	0.36	0.21	1	02/08/2022 11:00	02/10/2022 15:01	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355001 **Date Collected:** 01/28/2022 10:05 **Matrix:** Soil
Sample ID: S1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	0.22 U	mg/Kg	0.36	0.22	1	02/08/2022 11:00	02/10/2022 15:01	J
bis(2-Ethylhexyl) phthalate	0.29 U	mg/Kg	0.36	0.29	1	02/08/2022 11:00	02/10/2022 15:01	J
(SM 2540G)								
Percent Moisture	**54**	%	0.001	0.0010	1	01/31/2022 14:30	01/31/2022 14:30	J
VOLATILES (SW-846 5035/SW-846 8260B)								
1,1,1-Trichloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,1,2,2-Tetrachloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,1,2-Trichloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,1-Dichloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,1-Dichloroethylene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,2-Dichlorobenzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,2-Dichloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,2-Dichloropropane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,3-Dichlorobenzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
1,4-Dichlorobenzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
2-Chloroethyl Vinyl Ether	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Acrolein (Propenal)	0.018 U	mg/Kg	0.091	0.018	1	01/31/2022 08:38	01/31/2022 14:10	J
Acrylonitrile	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Benzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Bromodichloromethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Bromoform	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Bromomethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Carbon Tetrachloride	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Chlorobenzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Chloroethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Chloroform	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Chloromethane	0.0027 U	mg/Kg	0.011	0.0027	1	01/31/2022 08:38	01/31/2022 14:10	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355001 **Date Collected:** 01/28/2022 10:05 **Matrix:** Soil
Sample ID: S1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Dibromochloromethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Dichlorodifluoromethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Ethylbenzene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Methylene Chloride	0.0027 U	mg/Kg	0.011	0.0027	1	01/31/2022 08:38	01/31/2022 14:10	J
Tetrachloroethylene (PCE)	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Toluene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Trichloroethene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Trichlorofluoromethane	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Vinyl Chloride	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
Xylene (Total)	0.0041 U	mg/Kg	0.016	0.0041	1	01/31/2022 08:38	01/31/2022 14:10	J
cis-1,2-Dichloroethylene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
cis-1,3-Dichloropropene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
trans-1,2-Dichloroethylene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J
trans-1,3-Dichloropropylene	0.0014 U	mg/Kg	0.0054	0.0014	1	01/31/2022 08:38	01/31/2022 14:10	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/Kg	42	44	106	69 - 134	J
Toluene-d8 (S)	ug/Kg	42	41	98	72 - 122	J
Bromofluorobenzene (S)	ug/Kg	42	47	112	79 - 126	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nonatricontane-C39 (S)	mg/Kg	6	6.60	110	36 - 132	J
o-Terphenyl (S)	mg/Kg	2	1.60	81	66 - 136	J
2,4,6-Tribromophenol (S)	mg/Kg	1.70	1.60	95	39 - 132	J
Phenol-d6 (S)	mg/Kg	1.70	1.40	85	33 - 122	J
2-Fluorobiphenyl (S)	mg/Kg	1.70	1.40	85	44 - 115	J
2-Fluorophenol (S)	mg/Kg	1.70	1.30	82	35 - 115	J
Nitrobenzene-d5 (S)	mg/Kg	1.70	1.30	79	37 - 122	J
p-Terphenyl-d14 (S)	mg/Kg	1.70	1.60	97	54 - 127	J
Decachlorobiphenyl (S)	ug/Kg	83	62	75	61 - 147	J
Tetrachloro-m-xylene (S)	ug/Kg	170	130	77	44 - 130	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355002 **Date Collected:** 01/28/2022 11:00 **Matrix:** Water
Sample ID: TW-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3010A/SW-846 6020)								
Antimony	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:14	J
Arsenic	**0.97 I**	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:14	J
Barium	**20**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:14	J
Beryllium	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:14	J
Cadmium	0.25 U	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:14	J
Chromium	**0.51 I**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:14	J
Lead	0.50 U	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:14	J
Nickel	1.2 U	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:14	J
Selenium	1.2 U	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:14	J
Silver	0.50 U	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:14	J
Thallium	0.25 U	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:14	J
METALS (SW-846 7470A)								
Mercury	0.000011 U	mg/L	0.00010	0.000011	1	02/01/2022 11:40	02/01/2022 16:48	J
SEMIVOLATILES (FL-PRO)								
TPH	600 U	ug/L	680	600	1	02/02/2022 08:20	02/04/2022 07:55	J
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1221 (PCB-1221)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1232 (PCB-1232)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1242 (PCB-1242)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1248 (PCB-1248)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1254 (PCB-1254)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
Aroclor 1260 (PCB-1260)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 08:13	J
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.69 U	ug/L	5.0	0.69	1	02/01/2022 09:00	02/01/2022 18:02	J
1,2-Dichlorobenzene	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:02	J
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	1	02/01/2022 09:00	02/01/2022 18:02	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355002 **Date Collected:** 01/28/2022 11:00 **Matrix:** Water
Sample ID: TW-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 18:02	J
1,4-Dichlorobenzene	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:02	J
1-Methylnaphthalene	0.050 U	ug/L	0.20	0.050	1	02/01/2022 09:00	02/01/2022 18:02	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:02	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	1	02/01/2022 09:00	02/01/2022 18:02	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	1	02/01/2022 09:00	02/01/2022 18:02	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	1	02/01/2022 09:00	02/01/2022 18:02	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	1	02/01/2022 09:00	02/01/2022 18:02	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:02	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	1	02/01/2022 09:00	02/01/2022 18:02	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 18:02	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:02	J
2-Methylnaphthalene	0.049 U	ug/L	0.20	0.049	1	02/01/2022 09:00	02/01/2022 18:02	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 18:02	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 18:02	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:02	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 18:02	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	1	02/01/2022 09:00	02/01/2022 18:02	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	1	02/01/2022 09:00	02/01/2022 18:02	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 18:02	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	1	02/01/2022 09:00	02/01/2022 18:02	J
Anthracene	0.035 U	ug/L	0.20	0.035	1	02/01/2022 09:00	02/01/2022 18:02	J
Benzidine	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:02	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	1	02/01/2022 09:00	02/01/2022 18:02	J
Benzo[a]pyrene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 18:02	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	1	02/01/2022 09:00	02/01/2022 18:02	J
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:02	J

Certificate of Analysis

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355002 **Date Collected:** 01/28/2022 11:00 **Matrix:** Water
Sample ID: TW-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:02	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:02	J
Chrysene	0.033 U	ug/L	0.20	0.033	1	02/01/2022 09:00	02/01/2022 18:02	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	1	02/01/2022 09:00	02/01/2022 18:02	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:02	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	1	02/01/2022 09:00	02/01/2022 18:02	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 18:02	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	1	02/01/2022 09:00	02/01/2022 18:02	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 18:02	J
Fluorene	0.038 U	ug/L	0.20	0.038	1	02/01/2022 09:00	02/01/2022 18:02	J
Hexachlorobenzene	0.99 U	ug/L	5.0	0.99	1	02/01/2022 09:00	02/01/2022 18:02	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 18:02	J
Hexachlorocyclopentadiene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 18:02	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:02	J
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.20	0.011	1	02/01/2022 09:00	02/01/2022 18:02	J
Isophorone	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:02	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	1	02/01/2022 09:00	02/01/2022 18:02	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	1	02/01/2022 09:00	02/01/2022 18:02	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 18:02	J
Naphthalene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:02	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:02	J
Pentachlorophenol	0.95 U	ug/L	5.0	0.95	1	02/01/2022 09:00	02/01/2022 18:02	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 18:02	J
Phenol	0.54 U	ug/L	5.0	0.54	1	02/01/2022 09:00	02/01/2022 18:02	J
Pyrene	0.036 U	ug/L	0.20	0.036	1	02/01/2022 09:00	02/01/2022 18:02	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:02	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 18:02	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355002 **Date Collected:** 01/28/2022 11:00 **Matrix:** Water
Sample ID: TW-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:02	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:02	J
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,1-Trichloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:19	J
1,1,2-Trichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
1,1-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
1,1-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
1,2-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
1,2-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
1,2-Dichloropropane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
1,3-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
1,4-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
2-Chloroethyl Vinyl Ether	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Acrolein (Propenal)	1.5 U	ug/L	5.0	1.5	1	01/31/2022 16:41	01/31/2022 18:19	J
Acrylonitrile	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Benzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Bromodichloromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Bromoform	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Bromomethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Chlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Chloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Chloroform	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Chloromethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Dibromochloromethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:19	J
Dichlorodifluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355002 **Date Collected:** 01/28/2022 11:00 **Matrix:** Water
Sample ID: TW-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Ethylbenzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Methyl tert-butyl Ether (MTBE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Methylene Chloride	1.2 U	ug/L	5.0	1.2	1	01/31/2022 16:41	01/31/2022 18:19	J
Tetrachloroethylene (PCE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Toluene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Trichloroethene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Trichlorofluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
Vinyl Chloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:19	J
Xylene (Total)	0.75 U	ug/L	3.0	0.75	1	01/31/2022 16:41	01/31/2022 18:19	J
cis-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
cis-1,3-Dichloropropene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:19	J
trans-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:19	J
trans-1,3-Dichloropropylene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:19	J

Analysis Results Comments

o-Terphenyl

J4|Estimated Result

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	53	106	70 - 128	J
Toluene-d8 (S)	ug/L	50	49	97	77 - 119	J
Bromofluorobenzene (S)	ug/L	50	55	111	86 - 123	J
Nonatricontane-C39 (S)	ug/L	600	520	86	40 - 129	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
o-Terphenyl (S)	ug/L	200	130	**65**	66 - 139	J
2,4,6-Tribromophenol (S)	ug/L	50	41	83	48 - 147	J
Phenol-d6 (S)	ug/L	50	13	25	24 - 120	J
2-Fluorobiphenyl (S)	ug/L	50	36	73	42 - 138	J
2-Fluorophenol (S)	ug/L	50	17	34	31 - 134	J
Nitrobenzene-d5 (S)	ug/L	50	34	68	38 - 139	J
p-Terphenyl-d14 (S)	ug/L	50	47	94	61 - 154	J
Decachlorobiphenyl (S)	ug/L	0.50	0.38	77	44 - 136	J
Tetrachloro-m-xylene (S)	ug/L	1	0.81	81	61 - 119	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355003 **Date Collected:** 01/28/2022 12:47 **Matrix:** Soil
Sample ID: SB-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Antimony	**0.61 I**	mg/Kg	2.4	0.60	1	02/02/2022 11:25	02/02/2022 17:57	J
Arsenic	**11**	mg/Kg	2.4	0.60	1	02/02/2022 11:25	02/02/2022 17:57	J
Barium	**23**	mg/Kg	12	3.0	5	02/02/2022 11:25	02/04/2022 17:06	J
Beryllium	**0.30 I**	mg/Kg	0.48	0.12	1	02/02/2022 11:25	02/02/2022 17:57	J
Cadmium	**0.52**	mg/Kg	0.24	0.060	1	02/02/2022 11:25	02/02/2022 17:57	J
Chromium	**22**	mg/Kg	0.95	0.24	1	02/02/2022 11:25	02/02/2022 17:57	J
Lead	**10**	mg/Kg	2.4	0.60	1	02/02/2022 11:25	02/02/2022 17:57	J
Nickel	**8.2**	mg/Kg	2.4	0.60	1	02/02/2022 11:25	02/02/2022 17:57	J
Selenium	1.2 U	mg/Kg	4.8	1.2	1	02/02/2022 11:25	02/02/2022 17:57	J
Silver	0.24 U	mg/Kg	0.95	0.24	1	02/02/2022 11:25	02/02/2022 17:57	J
Thallium	3.6 U	mg/Kg	14	3.6	1	02/02/2022 11:25	02/02/2022 17:57	J
METALS (SW-846 7471A)								
Mercury	**0.042**	mg/Kg	0.0061	0.0015	1	02/08/2022 11:56	02/08/2022 15:31	J
SEMIVOLATILES (FL-PRO)								
TPH	**53**	mg/Kg	20	12	1	02/03/2022 13:00	02/05/2022 03:11	J
SEMIVOLATILES (SW-846 3550B/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1221 (PCB-1221)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1232 (PCB-1232)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1242 (PCB-1242)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1248 (PCB-1248)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1254 (PCB-1254)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
Aroclor 1260 (PCB-1260)	0.030 U	mg/Kg	0.12	0.030	1	02/04/2022 09:00	02/09/2022 06:34	J
SEMIVOLATILES (SW-846 3550B/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.072 U	mg/Kg	0.20	0.072	1	02/08/2022 11:00	02/10/2022 11:46	J
1,2-Dichlorobenzene	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 11:46	J
1,2-Diphenylhydrazine	0.18 U	mg/Kg	0.20	0.18	1	02/08/2022 11:00	02/10/2022 11:46	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355003 **Date Collected:** 01/28/2022 12:47 **Matrix:** Soil
Sample ID: SB-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 11:46	J
1,4-Dichlorobenzene	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
1-Methylnaphthalene	0.0029 U	mg/Kg	0.0082	0.0029	1	02/08/2022 11:00	02/10/2022 11:46	J
2,4,6-Trichlorophenol	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
2,4-Dichlorophenol	0.075 U	mg/Kg	0.20	0.075	1	02/08/2022 11:00	02/10/2022 11:46	J
2,4-Dimethylphenol	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 11:46	J
2,4-Dinitrophenol	0.075 U	mg/Kg	0.41	0.075	1	02/08/2022 11:00	02/10/2022 11:46	J
2,4-Dinitrotoluene (2,4-DNT)	0.094 U	mg/Kg	0.20	0.094	1	02/08/2022 11:00	02/10/2022 11:46	J
2,6-Dinitrotoluene (2,6-DNT)	0.096 U	mg/Kg	0.20	0.096	1	02/08/2022 11:00	02/10/2022 11:46	J
2-Chloronaphthalene	0.14 U	mg/Kg	0.20	0.14	1	02/08/2022 11:00	02/10/2022 11:46	J
2-Chlorophenol	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
2-Methyl-4,6-dinitrophenol	0.083 U	mg/Kg	0.41	0.083	1	02/08/2022 11:00	02/10/2022 11:46	J
2-Methylnaphthalene	0.0028 U	mg/Kg	0.0082	0.0028	1	02/08/2022 11:00	02/10/2022 11:46	J
2-Nitrophenol	0.078 U	mg/Kg	0.20	0.078	1	02/08/2022 11:00	02/10/2022 11:46	J
3,3`-Dichlorobenzidine	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
4-Bromophenyl Phenyl Ether	0.098 U	mg/Kg	0.20	0.098	1	02/08/2022 11:00	02/10/2022 11:46	J
4-Chloro-3-methylphenol	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
4-Chlorophenyl Phenyl Ether	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
4-Nitrophenol	0.18 U	mg/Kg	0.20	0.18	1	02/08/2022 11:00	02/10/2022 11:46	J
Acenaphthene	0.0032 U	mg/Kg	0.0082	0.0032	1	02/08/2022 11:00	02/10/2022 11:46	J
Acenaphthylene	0.0042 U	mg/Kg	0.0082	0.0042	1	02/08/2022 11:00	02/10/2022 11:46	J
Anthracene	0.0043 U	mg/Kg	0.0082	0.0043	1	02/08/2022 11:00	02/10/2022 11:46	J
Benzidine	0.043 U	mg/Kg	0.20	0.043	1	02/08/2022 11:00	02/10/2022 11:46	J
Benzo[a]anthracene	**0.0056 I**	mg/Kg	0.0082	0.0051	1	02/08/2022 11:00	02/10/2022 11:46	J
Benzo[a]pyrene	0.0071 U	mg/Kg	0.0082	0.0071	1	02/08/2022 11:00	02/10/2022 11:46	J
Benzo[b]fluoranthene	0.0052 U	mg/Kg	0.0082	0.0052	1	02/08/2022 11:00	02/10/2022 11:46	J
Benzo[g,h,i]perylene	0.0058 U	mg/Kg	0.0082	0.0058	1	02/08/2022 11:00	02/10/2022 11:46	J

Certificate of Analysis

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355003 **Date Collected:** 01/28/2022 12:47 **Matrix:** Soil
Sample ID: SB-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.0050 U	mg/Kg	0.0082	0.0050	1	02/08/2022 11:00	02/10/2022 11:46	J
Butyl benzyl phthalate	0.17 U	mg/Kg	0.20	0.17	1	02/08/2022 11:00	02/10/2022 11:46	J
Chrysene	0.0053 U	mg/Kg	0.0082	0.0053	1	02/08/2022 11:00	02/10/2022 11:46	J
Di-n-Butyl Phthalate	0.19 U	mg/Kg	0.20	0.19	1	02/08/2022 11:00	02/10/2022 11:46	J
Di-n-octyl Phthalate	0.17 U	mg/Kg	0.20	0.17	1	02/08/2022 11:00	02/10/2022 11:46	J
Dibenzo[a,h]anthracene	0.0042 U	mg/Kg	0.20	0.0042	1	02/08/2022 11:00	02/10/2022 11:46	J
Diethyl phthalate	0.15 U	mg/Kg	0.20	0.15	1	02/08/2022 11:00	02/10/2022 11:46	J
Dimethyl phthalate	0.13 U	mg/Kg	0.41	0.13	1	02/08/2022 11:00	02/10/2022 11:46	J
Fluoranthene	0.0046 U	mg/Kg	0.0082	0.0046	1	02/08/2022 11:00	02/10/2022 11:46	J
Fluorene	0.0036 U	mg/Kg	0.0082	0.0036	1	02/08/2022 11:00	02/10/2022 11:46	J
Hexachlorobenzene	0.10 U	mg/Kg	0.20	0.10	1	02/08/2022 11:00	02/10/2022 11:46	J
Hexachlorobutadiene	0.069 U	mg/Kg	0.20	0.069	1	02/08/2022 11:00	02/10/2022 11:46	J
Hexachlorocyclopentadiene	0.068 U	mg/Kg	0.20	0.068	1	02/08/2022 11:00	02/10/2022 11:46	J
Hexachloroethane	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 11:46	J
Indeno(1,2,3-cd)pyrene	**0.0056 I**	mg/Kg	0.0082	0.0046	1	02/08/2022 11:00	02/10/2022 11:46	J
Isophorone	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
N-Nitrosodi-n-propylamine	0.032 U	mg/Kg	0.20	0.032	1	02/08/2022 11:00	02/10/2022 11:46	J
N-Nitrosodimethylamine	0.15 U	mg/Kg	0.20	0.15	1	02/08/2022 11:00	02/10/2022 11:46	J
N-Nitrosodiphenylamine	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 11:46	J
Naphthalene	0.0029 U	mg/Kg	0.0082	0.0029	1	02/08/2022 11:00	02/10/2022 11:46	J
Nitrobenzene	0.17 U	mg/Kg	0.20	0.17	1	02/08/2022 11:00	02/10/2022 11:46	J
Pentachlorophenol	0.071 U	mg/Kg	0.20	0.071	1	02/08/2022 11:00	02/10/2022 11:46	J
Phenanthrene	0.0038 U	mg/Kg	0.0082	0.0038	1	02/08/2022 11:00	02/10/2022 11:46	J
Phenol	0.14 U	mg/Kg	0.20	0.14	1	02/08/2022 11:00	02/10/2022 11:46	J
Pyrene	0.0050 U	mg/Kg	0.0082	0.0050	1	02/08/2022 11:00	02/10/2022 11:46	J
bis(2-Chloroethoxy)methane	0.15 U	mg/Kg	0.20	0.15	1	02/08/2022 11:00	02/10/2022 11:46	J
bis(2-Chloroethyl)Ether	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 11:46	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355003 **Date Collected:** 01/28/2022 12:47 **Matrix:** Soil
Sample ID: SB-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	0.13 U	mg/Kg	0.20	0.13	1	02/08/2022 11:00	02/10/2022 11:46	J
bis(2-Ethylhexyl) phthalate	0.16 U	mg/Kg	0.20	0.16	1	02/08/2022 11:00	02/10/2022 11:46	J
(SM 2540G)								
Percent Moisture	**17**	%	0.001	0.0010	1	01/31/2022 14:30	01/31/2022 14:30	J
VOLATILES (SW-846 5035/SW-846 8260B)								
1,1,1-Trichloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,1,2,2-Tetrachloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,1,2-Trichloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,1-Dichloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,1-Dichloroethylene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,2-Dichlorobenzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,2-Dichloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,2-Dichloropropane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,3-Dichlorobenzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
1,4-Dichlorobenzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
2-Chloroethyl Vinyl Ether	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Acrolein (Propenal)	0.011 U	mg/Kg	0.055	0.011	1	01/31/2022 08:38	01/31/2022 14:36	J
Acrylonitrile	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Benzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Bromodichloromethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Bromoform	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Bromomethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Carbon Tetrachloride	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355003 **Date Collected:** 01/28/2022 12:47 **Matrix:** Soil
Sample ID: SB-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Chlorobenzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Chloroethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Chloroform	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Chloromethane	0.0016 U	mg/Kg	0.0066	0.0016	1	01/31/2022 08:38	01/31/2022 14:36	J
Dibromochloromethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Dichlorodifluoromethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Ethylbenzene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Methylene Chloride	0.0016 U	mg/Kg	0.0066	0.0016	1	01/31/2022 08:38	01/31/2022 14:36	J
Tetrachloroethylene (PCE)	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Toluene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Trichloroethene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Trichlorofluoromethane	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Vinyl Chloride	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
Xylene (Total)	0.0025 U	mg/Kg	0.0099	0.0025	1	01/31/2022 08:38	01/31/2022 14:36	J
cis-1,2-Dichloroethylene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
cis-1,3-Dichloropropene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
trans-1,2-Dichloroethylene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J
trans-1,3-Dichloropropylene	0.00082 U	mg/Kg	0.0033	0.00082	1	01/31/2022 08:38	01/31/2022 14:36	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Analysis Results Comments

TPH

J4|Estimated Result

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/Kg	45	45	99	69 - 134	J
Toluene-d8 (S)	ug/Kg	45	45	98	72 - 122	J
Bromofluorobenzene (S)	ug/Kg	45	48	106	79 - 126	J
Nonatricontane-C39 (S)	mg/Kg	6	5.70	95	36 - 132	J
o-Terphenyl (S)	mg/Kg	2	1.80	91	66 - 136	J
2,4,6-Tribromophenol (S)	mg/Kg	1.70	0.88	52	39 - 132	J
Phenol-d6 (S)	mg/Kg	1.70	1.40	85	33 - 122	J
2-Fluorobiphenyl (S)	mg/Kg	1.70	1.50	87	44 - 115	J
2-Fluorophenol (S)	mg/Kg	1.70	1.30	77	35 - 115	J
Nitrobenzene-d5 (S)	mg/Kg	1.70	1.40	85	37 - 122	J
p-Terphenyl-d14 (S)	mg/Kg	1.70	1.60	98	54 - 127	J
Decachlorobiphenyl (S)	ug/Kg	83	70	84	61 - 147	J
Tetrachloro-m-xylene (S)	ug/Kg	170	130	81	44 - 130	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355004 **Date Collected:** 01/28/2022 12:00 **Matrix:** Soil
Sample ID: SB-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Antimony	0.58 U	mg/Kg	2.3	0.58	1	02/02/2022 11:25	02/02/2022 18:01	J
Arsenic	0.58 U	mg/Kg	2.3	0.58	1	02/02/2022 11:25	02/02/2022 18:01	J
Barium	**11**	mg/Kg	2.3	0.58	1	02/02/2022 11:25	02/02/2022 18:01	J
Beryllium	0.12 U	mg/Kg	0.46	0.12	1	02/02/2022 11:25	02/02/2022 18:01	J
Cadmium	0.058 U	mg/Kg	0.23	0.058	1	02/02/2022 11:25	02/02/2022 18:01	J
Chromium	**1.2**	mg/Kg	0.92	0.23	1	02/02/2022 11:25	02/02/2022 18:01	J
Lead	**5.7**	mg/Kg	2.3	0.58	1	02/02/2022 11:25	02/02/2022 18:01	J
Nickel	**1.0 I**	mg/Kg	2.3	0.58	1	02/02/2022 11:25	02/02/2022 18:01	J
Selenium	1.2 U	mg/Kg	4.6	1.2	1	02/02/2022 11:25	02/02/2022 18:01	J
Silver	0.23 U	mg/Kg	0.92	0.23	1	02/02/2022 11:25	02/02/2022 18:01	J
Thallium	3.5 U	mg/Kg	14	3.5	1	02/02/2022 11:25	02/02/2022 18:01	J
METALS (SW-846 7471A)								
Mercury	**0.016**	mg/Kg	0.0053	0.0013	1	02/08/2022 11:56	02/08/2022 15:35	J
SEMIVOLATILES (FL-PRO)								
TPH	**81**	mg/Kg	20	12	1	02/03/2022 13:00	02/05/2022 03:42	J
SEMIVOLATILES (SW-846 3550B/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1221 (PCB-1221)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1232 (PCB-1232)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1242 (PCB-1242)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1248 (PCB-1248)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1254 (PCB-1254)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
Aroclor 1260 (PCB-1260)	0.029 U	mg/Kg	0.12	0.029	1	02/04/2022 09:00	02/09/2022 06:54	J
SEMIVOLATILES (SW-846 3550B/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.070 U	mg/Kg	0.20	0.070	1	02/08/2022 11:00	02/10/2022 13:04	J
1,2-Dichlorobenzene	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 13:04	J
1,2-Diphenylhydrazine	0.17 U	mg/Kg	0.20	0.17	1	02/08/2022 11:00	02/10/2022 13:04	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355004 **Date Collected:** 01/28/2022 12:00 **Matrix:** Soil
Sample ID: SB-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
1,4-Dichlorobenzene	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
1-Methylnaphthalene	0.0028 U	mg/Kg	0.0079	0.0028	1	02/08/2022 11:00	02/10/2022 13:04	J
2,4,6-Trichlorophenol	0.10 U	mg/Kg	0.20	0.10	1	02/08/2022 11:00	02/10/2022 13:04	J
2,4-Dichlorophenol	0.073 U	mg/Kg	0.20	0.073	1	02/08/2022 11:00	02/10/2022 13:04	J
2,4-Dimethylphenol	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 13:04	J
2,4-Dinitrophenol	0.072 U	mg/Kg	0.40	0.072	1	02/08/2022 11:00	02/10/2022 13:04	J
2,4-Dinitrotoluene (2,4-DNT)	0.091 U	mg/Kg	0.20	0.091	1	02/08/2022 11:00	02/10/2022 13:04	J
2,6-Dinitrotoluene (2,6-DNT)	0.093 U	mg/Kg	0.20	0.093	1	02/08/2022 11:00	02/10/2022 13:04	J
2-Chloronaphthalene	0.13 U	mg/Kg	0.20	0.13	1	02/08/2022 11:00	02/10/2022 13:04	J
2-Chlorophenol	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
2-Methyl-4,6-dinitrophenol	0.080 U	mg/Kg	0.40	0.080	1	02/08/2022 11:00	02/10/2022 13:04	J
2-Methylnaphthalene	0.0027 U	mg/Kg	0.0079	0.0027	1	02/08/2022 11:00	02/10/2022 13:04	J
2-Nitrophenol	0.076 U	mg/Kg	0.20	0.076	1	02/08/2022 11:00	02/10/2022 13:04	J
3,3`-Dichlorobenzidine	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
4-Bromophenyl Phenyl Ether	0.095 U	mg/Kg	0.20	0.095	1	02/08/2022 11:00	02/10/2022 13:04	J
4-Chloro-3-methylphenol	0.10 U	mg/Kg	0.20	0.10	1	02/08/2022 11:00	02/10/2022 13:04	J
4-Chlorophenyl Phenyl Ether	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
4-Nitrophenol	0.17 U	mg/Kg	0.20	0.17	1	02/08/2022 11:00	02/10/2022 13:04	J
Acenaphthene	0.0031 U	mg/Kg	0.0079	0.0031	1	02/08/2022 11:00	02/10/2022 13:04	J
Acenaphthylene	0.0041 U	mg/Kg	0.0079	0.0041	1	02/08/2022 11:00	02/10/2022 13:04	J
Anthracene	0.0042 U	mg/Kg	0.0079	0.0042	1	02/08/2022 11:00	02/10/2022 13:04	J
Benzidine	0.042 U	mg/Kg	0.20	0.042	1	02/08/2022 11:00	02/10/2022 13:04	J
Benzo[a]anthracene	0.0049 U	mg/Kg	0.0079	0.0049	1	02/08/2022 11:00	02/10/2022 13:04	J
Benzo[a]pyrene	0.0069 U	mg/Kg	0.0079	0.0069	1	02/08/2022 11:00	02/10/2022 13:04	J
Benzo[b]fluoranthene	0.0050 U	mg/Kg	0.0079	0.0050	1	02/08/2022 11:00	02/10/2022 13:04	J
Benzo[g,h,i]perylene	0.0056 U	mg/Kg	0.0079	0.0056	1	02/08/2022 11:00	02/10/2022 13:04	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355004 **Date Collected:** 01/28/2022 12:00 **Matrix:** Soil
Sample ID: SB-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.0048 U	mg/Kg	0.0079	0.0048	1	02/08/2022 11:00	02/10/2022 13:04	J
Butyl benzyl phthalate	0.16 U	mg/Kg	0.20	0.16	1	02/08/2022 11:00	02/10/2022 13:04	J
Chrysene	0.0052 U	mg/Kg	0.0079	0.0052	1	02/08/2022 11:00	02/10/2022 13:04	J
Di-n-Butyl Phthalate	0.19 U	mg/Kg	0.20	0.19	1	02/08/2022 11:00	02/10/2022 13:04	J
Di-n-octyl Phthalate	0.16 U	mg/Kg	0.20	0.16	1	02/08/2022 11:00	02/10/2022 13:04	J
Dibenzo[a,h]anthracene	0.0041 U	mg/Kg	0.20	0.0041	1	02/08/2022 11:00	02/10/2022 13:04	J
Diethyl phthalate	0.14 U	mg/Kg	0.20	0.14	1	02/08/2022 11:00	02/10/2022 13:04	J
Dimethyl phthalate	0.12 U	mg/Kg	0.40	0.12	1	02/08/2022 11:00	02/10/2022 13:04	J
Fluoranthene	0.0045 U	mg/Kg	0.0079	0.0045	1	02/08/2022 11:00	02/10/2022 13:04	J
Fluorene	0.0035 U	mg/Kg	0.0079	0.0035	1	02/08/2022 11:00	02/10/2022 13:04	J
Hexachlorobenzene	0.098 U	mg/Kg	0.20	0.098	1	02/08/2022 11:00	02/10/2022 13:04	J
Hexachlorobutadiene	0.067 U	mg/Kg	0.20	0.067	1	02/08/2022 11:00	02/10/2022 13:04	J
Hexachlorocyclopentadiene	0.066 U	mg/Kg	0.20	0.066	1	02/08/2022 11:00	02/10/2022 13:04	J
Hexachloroethane	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
Indeno(1,2,3-cd)pyrene	0.0045 U	mg/Kg	0.0079	0.0045	1	02/08/2022 11:00	02/10/2022 13:04	J
Isophorone	0.11 U	mg/Kg	0.20	0.11	1	02/08/2022 11:00	02/10/2022 13:04	J
N-Nitrosodi-n-propylamine	0.031 U	mg/Kg	0.20	0.031	1	02/08/2022 11:00	02/10/2022 13:04	J
N-Nitrosodimethylamine	0.14 U	mg/Kg	0.20	0.14	1	02/08/2022 11:00	02/10/2022 13:04	J
N-Nitrosodiphenylamine	0.10 U	mg/Kg	0.20	0.10	1	02/08/2022 11:00	02/10/2022 13:04	J
Naphthalene	0.0028 U	mg/Kg	0.0079	0.0028	1	02/08/2022 11:00	02/10/2022 13:04	J
Nitrobenzene	0.16 U	mg/Kg	0.20	0.16	1	02/08/2022 11:00	02/10/2022 13:04	J
Pentachlorophenol	0.068 U	mg/Kg	0.20	0.068	1	02/08/2022 11:00	02/10/2022 13:04	J
Phenanthrene	0.0036 U	mg/Kg	0.0079	0.0036	1	02/08/2022 11:00	02/10/2022 13:04	J
Phenol	0.14 U	mg/Kg	0.20	0.14	1	02/08/2022 11:00	02/10/2022 13:04	J
Pyrene	0.0048 U	mg/Kg	0.0079	0.0048	1	02/08/2022 11:00	02/10/2022 13:04	J
bis(2-Chloroethoxy)methane	0.15 U	mg/Kg	0.20	0.15	1	02/08/2022 11:00	02/10/2022 13:04	J
bis(2-Chloroethyl)Ether	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 13:04	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355004 **Date Collected:** 01/28/2022 12:00 **Matrix:** Soil
Sample ID: SB-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	0.12 U	mg/Kg	0.20	0.12	1	02/08/2022 11:00	02/10/2022 13:04	J
bis(2-Ethylhexyl) phthalate	0.16 U	mg/Kg	0.20	0.16	1	02/08/2022 11:00	02/10/2022 13:04	J
(SM 2540G)								
Percent Moisture	**15**	%	0.001	0.0010	1	01/31/2022 14:30	01/31/2022 14:30	J
VOLATILES (SW-846 5035/SW-846 8260B)								
1,1,1-Trichloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,1,2,2-Tetrachloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,1,2-Trichloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,1-Dichloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,1-Dichloroethylene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,2-Dichlorobenzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,2-Dichloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,2-Dichloropropane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,3-Dichlorobenzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
1,4-Dichlorobenzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
2-Chloroethyl Vinyl Ether	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Acrolein (Propenal)	0.010 U	mg/Kg	0.051	0.010	1	01/31/2022 08:38	01/31/2022 15:01	J
Acrylonitrile	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Benzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Bromodichloromethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Bromoform	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Bromomethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Carbon Tetrachloride	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355004 **Date Collected:** 01/28/2022 12:00 **Matrix:** Soil
Sample ID: SB-1 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Chlorobenzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Chloroethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Chloroform	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Chloromethane	0.0015 U	mg/Kg	0.0061	0.0015	1	01/31/2022 08:38	01/31/2022 15:01	J
Dibromochloromethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Dichlorodifluoromethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Ethylbenzene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Methylene Chloride	0.0015 U	mg/Kg	0.0061	0.0015	1	01/31/2022 08:38	01/31/2022 15:01	J
Tetrachloroethylene (PCE)	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Toluene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Trichloroethene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Trichlorofluoromethane	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Vinyl Chloride	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
Xylene (Total)	0.0023 U	mg/Kg	0.0091	0.0023	1	01/31/2022 08:38	01/31/2022 15:01	J
cis-1,2-Dichloroethylene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
cis-1,3-Dichloropropene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
trans-1,2-Dichloroethylene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J
trans-1,3-Dichloropropylene	0.00076 U	mg/Kg	0.0030	0.00076	1	01/31/2022 08:38	01/31/2022 15:01	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Analysis Results Comments

VOLATILES

See Case Narration

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/Kg	43	48	111	69 - 134	J
Toluene-d8 (S)	ug/Kg	43	45	104	72 - 122	J
Bromofluorobenzene (S)	ug/Kg	43	55	126	79 - 126	J
o-Terphenyl (S)	mg/Kg	2	2	99	66 - 136	J
Nonatricontane-C39 (S)	mg/Kg	6.10	6.90	114	36 - 132	J
Phenol-d6 (S)	mg/Kg	1.70	1.60	94	33 - 122	J
2-Fluorobiphenyl (S)	mg/Kg	1.70	1.50	90	44 - 115	J
2-Fluorophenol (S)	mg/Kg	1.70	1.60	95	35 - 115	J
Nitrobenzene-d5 (S)	mg/Kg	1.70	1.50	87	37 - 122	J
p-Terphenyl-d14 (S)	mg/Kg	1.70	1.60	93	54 - 127	J
2,4,6-Tribromophenol (S)	mg/Kg	1.70	1.60	95	39 - 132	J
Decachlorobiphenyl (S)	ug/Kg	83	67	81	61 - 147	J
Tetrachloro-m-xylene (S)	ug/Kg	170	130	77	44 - 130	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355005 **Date Collected:** 01/28/2022 13:10 **Matrix:** Water
Sample ID: TW-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3010A/SW-846 6020)								
Antimony	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:20	J
Arsenic	**1.1**	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:20	J
Barium	**54**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:20	J
Beryllium	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:20	J
Cadmium	0.25 U	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:20	J
Chromium	**8.4**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:20	J
Lead	**7.6**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:20	J
Nickel	**2.2 I**	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:20	J
Selenium	1.2 U	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:20	J
Silver	0.50 U	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:20	J
Thallium	0.25 U	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:20	J
METALS (SW-846 7470A)								
Mercury	**0.000041 I**	mg/L	0.00010	0.000011	1	02/01/2022 11:40	02/01/2022 17:18	J
SEMIVOLATILES (FL-PRO)								
TPH	600 U	ug/L	680	600	1	02/02/2022 08:20	02/04/2022 08:24	J
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1221 (PCB-1221)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1232 (PCB-1232)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1242 (PCB-1242)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1248 (PCB-1248)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1254 (PCB-1254)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
Aroclor 1260 (PCB-1260)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:31	J
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.69 U	ug/L	5.0	0.69	1	02/01/2022 09:00	02/01/2022 18:40	J
1,2-Dichlorobenzene	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:40	J
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	1	02/01/2022 09:00	02/01/2022 18:40	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355005 **Date Collected:** 01/28/2022 13:10 **Matrix:** Water
Sample ID: TW-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 18:40	J
1,4-Dichlorobenzene	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:40	J
1-Methylnaphthalene	0.050 U	ug/L	0.20	0.050	1	02/01/2022 09:00	02/01/2022 18:40	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:40	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	1	02/01/2022 09:00	02/01/2022 18:40	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	1	02/01/2022 09:00	02/01/2022 18:40	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	1	02/01/2022 09:00	02/01/2022 18:40	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	1	02/01/2022 09:00	02/01/2022 18:40	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:40	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	1	02/01/2022 09:00	02/01/2022 18:40	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 18:40	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:40	J
2-Methylnaphthalene	0.049 U	ug/L	0.20	0.049	1	02/01/2022 09:00	02/01/2022 18:40	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 18:40	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 18:40	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:40	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 18:40	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	1	02/01/2022 09:00	02/01/2022 18:40	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	1	02/01/2022 09:00	02/01/2022 18:40	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 18:40	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	1	02/01/2022 09:00	02/01/2022 18:40	J
Anthracene	0.035 U	ug/L	0.20	0.035	1	02/01/2022 09:00	02/01/2022 18:40	J
Benzidine	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:40	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	1	02/01/2022 09:00	02/01/2022 18:40	J
Benzo[a]pyrene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 18:40	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	1	02/01/2022 09:00	02/01/2022 18:40	J
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:40	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355005 **Date Collected:** 01/28/2022 13:10 **Matrix:** Water
Sample ID: TW-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:40	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:40	J
Chrysene	0.033 U	ug/L	0.20	0.033	1	02/01/2022 09:00	02/01/2022 18:40	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	1	02/01/2022 09:00	02/01/2022 18:40	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:40	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	1	02/01/2022 09:00	02/01/2022 18:40	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 18:40	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	1	02/01/2022 09:00	02/01/2022 18:40	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 18:40	J
Fluorene	0.038 U	ug/L	0.20	0.038	1	02/01/2022 09:00	02/01/2022 18:40	J
Hexachlorobenzene	0.99 U	ug/L	5.0	0.99	1	02/01/2022 09:00	02/01/2022 18:40	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 18:40	J
Hexachlorocyclopentadiene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 18:40	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:40	J
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.20	0.011	1	02/01/2022 09:00	02/01/2022 18:40	J
Isophorone	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:40	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	1	02/01/2022 09:00	02/01/2022 18:40	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	1	02/01/2022 09:00	02/01/2022 18:40	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 18:40	J
Naphthalene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 18:40	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 18:40	J
Pentachlorophenol	0.95 U	ug/L	5.0	0.95	1	02/01/2022 09:00	02/01/2022 18:40	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 18:40	J
Phenol	0.54 U	ug/L	5.0	0.54	1	02/01/2022 09:00	02/01/2022 18:40	J
Pyrene	0.036 U	ug/L	0.20	0.036	1	02/01/2022 09:00	02/01/2022 18:40	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 18:40	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 18:40	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355005 **Date Collected:** 01/28/2022 13:10 **Matrix:** Water
Sample ID: TW-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 18:40	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 18:40	J
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,1-Trichloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:43	J
1,1,2-Trichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
1,1-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
1,1-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
1,2-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
1,2-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
1,2-Dichloropropane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
1,3-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
1,4-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
2-Chloroethyl Vinyl Ether	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Acrolein (Propenal)	1.5 U	ug/L	5.0	1.5	1	01/31/2022 16:41	01/31/2022 18:43	J
Acrylonitrile	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Benzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Bromodichloromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Bromoform	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Bromomethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Chlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Chloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Chloroform	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Chloromethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Dibromochloromethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:43	J
Dichlorodifluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355005 **Date Collected:** 01/28/2022 13:10 **Matrix:** Water
Sample ID: TW-2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Ethylbenzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Methyl tert-butyl Ether (MTBE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Methylene Chloride	1.2 U	ug/L	5.0	1.2	1	01/31/2022 16:41	01/31/2022 18:43	J
Tetrachloroethylene (PCE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Toluene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Trichloroethene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Trichlorofluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
Vinyl Chloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 18:43	J
Xylene (Total)	0.75 U	ug/L	3.0	0.75	1	01/31/2022 16:41	01/31/2022 18:43	J
cis-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
cis-1,3-Dichloropropene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:43	J
trans-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 18:43	J
trans-1,3-Dichloropropylene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 18:43	J

Analysis Results Comments

2-Fluorophenol

J4|Estimated Result

Phenol-d6

J4|Estimated Result

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	53	105	70 - 128	J
Toluene-d8 (S)	ug/L	50	50	100	77 - 119	J
Bromofluorobenzene (S)	ug/L	50	56	111	86 - 123	J
Nonatricontane-C39 (S)	ug/L	600	520	86	40 - 129	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
o-Terphenyl (S)	ug/L	200	130	67	66 - 139	J
2,4,6-Tribromophenol (S)	ug/L	50	38	75	48 - 147	J
Phenol-d6 (S)	ug/L	50	9.10	**18**	24 - 120	J
2-Fluorobiphenyl (S)	ug/L	50	31	63	42 - 138	J
2-Fluorophenol (S)	ug/L	50	14	**29**	31 - 134	J
Nitrobenzene-d5 (S)	ug/L	50	31	62	38 - 139	J
p-Terphenyl-d14 (S)	ug/L	50	47	95	61 - 154	J
Tetrachloro-m-xylene (S)	ug/L	1	0.87	87	61 - 119	J
Decachlorobiphenyl (S)	ug/L	0.50	0.28	57	44 - 136	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355006 **Date Collected:** 01/28/2022 14:03 **Matrix:** Soil
Sample ID: S2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Antimony	0.71 U	mg/Kg	2.8	0.71	1	02/02/2022 11:25	02/02/2022 18:06	J
Arsenic	0.71 U	mg/Kg	2.8	0.71	1	02/02/2022 11:25	02/02/2022 18:06	J
Barium	**15**	mg/Kg	2.8	0.71	1	02/02/2022 11:25	02/02/2022 18:06	J
Beryllium	0.14 U	mg/Kg	0.57	0.14	1	02/02/2022 11:25	02/02/2022 18:06	J
Cadmium	0.071 U	mg/Kg	0.28	0.071	1	02/02/2022 11:25	02/02/2022 18:06	J
Chromium	**6.7**	mg/Kg	1.1	0.28	1	02/02/2022 11:25	02/02/2022 18:06	J
Lead	**5.9**	mg/Kg	2.8	0.71	1	02/02/2022 11:25	02/02/2022 18:06	J
Nickel	**1.6 I**	mg/Kg	2.8	0.71	1	02/02/2022 11:25	02/02/2022 18:06	J
Selenium	1.4 U	mg/Kg	5.7	1.4	1	02/02/2022 11:25	02/02/2022 18:06	J
Silver	0.28 U	mg/Kg	1.1	0.28	1	02/02/2022 11:25	02/02/2022 18:06	J
Thallium	4.2 U	mg/Kg	17	4.2	1	02/02/2022 11:25	02/02/2022 18:06	J
METALS (SW-846 7471A)								
Mercury	**2.9**	mg/Kg	0.34	0.085	50	02/08/2022 11:56	02/08/2022 16:09	J
SEMIVOLATILES (FL-PRO)								
TPH	**39**	mg/Kg	24	14	1	02/03/2022 13:00	02/05/2022 04:13	J
SEMIVOLATILES (SW-846 3550B/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1221 (PCB-1221)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1232 (PCB-1232)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1242 (PCB-1242)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1248 (PCB-1248)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1254 (PCB-1254)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
Aroclor 1260 (PCB-1260)	0.036 U	mg/Kg	0.14	0.036	1	02/04/2022 09:00	02/09/2022 07:15	J
SEMIVOLATILES (SW-846 3550B/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.084 U	mg/Kg	0.24	0.084	1	02/08/2022 11:00	02/10/2022 12:25	J
1,2-Dichlorobenzene	0.14 U	mg/Kg	0.24	0.14	1	02/08/2022 11:00	02/10/2022 12:25	J
1,2-Diphenylhydrazine	0.21 U	mg/Kg	0.24	0.21	1	02/08/2022 11:00	02/10/2022 12:25	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355006 **Date Collected:** 01/28/2022 14:03 **Matrix:** Soil
Sample ID: S2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	0.14 U	mg/Kg	0.24	0.14	1	02/08/2022 11:00	02/10/2022 12:25	J
1,4-Dichlorobenzene	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
1-Methylnaphthalene	0.0033 U	mg/Kg	0.0095	0.0033	1	02/08/2022 11:00	02/10/2022 12:25	J
2,4,6-Trichlorophenol	0.12 U	mg/Kg	0.24	0.12	1	02/08/2022 11:00	02/10/2022 12:25	J
2,4-Dichlorophenol	0.088 U	mg/Kg	0.24	0.088	1	02/08/2022 11:00	02/10/2022 12:25	J
2,4-Dimethylphenol	0.14 U	mg/Kg	0.24	0.14	1	02/08/2022 11:00	02/10/2022 12:25	J
2,4-Dinitrophenol	0.087 U	mg/Kg	0.48	0.087	1	02/08/2022 11:00	02/10/2022 12:25	J
2,4-Dinitrotoluene (2,4-DNT)	0.11 U	mg/Kg	0.24	0.11	1	02/08/2022 11:00	02/10/2022 12:25	J
2,6-Dinitrotoluene (2,6-DNT)	0.11 U	mg/Kg	0.24	0.11	1	02/08/2022 11:00	02/10/2022 12:25	J
2-Chloronaphthalene	0.16 U	mg/Kg	0.24	0.16	1	02/08/2022 11:00	02/10/2022 12:25	J
2-Chlorophenol	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
2-Methyl-4,6-dinitrophenol	0.096 U	mg/Kg	0.48	0.096	1	02/08/2022 11:00	02/10/2022 12:25	J
2-Methylnaphthalene	0.0033 U	mg/Kg	0.0095	0.0033	1	02/08/2022 11:00	02/10/2022 12:25	J
2-Nitrophenol	0.091 U	mg/Kg	0.24	0.091	1	02/08/2022 11:00	02/10/2022 12:25	J
3,3`-Dichlorobenzidine	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
4-Bromophenyl Phenyl Ether	0.11 U	mg/Kg	0.24	0.11	1	02/08/2022 11:00	02/10/2022 12:25	J
4-Chloro-3-methylphenol	0.12 U	mg/Kg	0.24	0.12	1	02/08/2022 11:00	02/10/2022 12:25	J
4-Chlorophenyl Phenyl Ether	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
4-Nitrophenol	0.21 U	mg/Kg	0.24	0.21	1	02/08/2022 11:00	02/10/2022 12:25	J
Acenaphthene	0.0037 U	mg/Kg	0.0095	0.0037	1	02/08/2022 11:00	02/10/2022 12:25	J
Acenaphthylene	0.0049 U	mg/Kg	0.0095	0.0049	1	02/08/2022 11:00	02/10/2022 12:25	J
Anthracene	0.0050 U	mg/Kg	0.0095	0.0050	1	02/08/2022 11:00	02/10/2022 12:25	J
Benzidine	0.051 U	mg/Kg	0.24	0.051	1	02/08/2022 11:00	02/10/2022 12:25	J
Benzo[a]anthracene	0.0059 U	mg/Kg	0.0095	0.0059	1	02/08/2022 11:00	02/10/2022 12:25	J
Benzo[a]pyrene	0.0083 U	mg/Kg	0.0095	0.0083	1	02/08/2022 11:00	02/10/2022 12:25	J
Benzo[b]fluoranthene	0.0060 U	mg/Kg	0.0095	0.0060	1	02/08/2022 11:00	02/10/2022 12:25	J
Benzo[g,h,i]perylene	0.0068 U	mg/Kg	0.0095	0.0068	1	02/08/2022 11:00	02/10/2022 12:25	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355006 **Date Collected:** 01/28/2022 14:03 **Matrix:** Soil
Sample ID: S2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	0.0058 U	mg/Kg	0.0095	0.0058	1	02/08/2022 11:00	02/10/2022 12:25	J
Butyl benzyl phthalate	0.19 U	mg/Kg	0.24	0.19	1	02/08/2022 11:00	02/10/2022 12:25	J
Chrysene	0.0062 U	mg/Kg	0.0095	0.0062	1	02/08/2022 11:00	02/10/2022 12:25	J
Di-n-Butyl Phthalate	0.23 U	mg/Kg	0.24	0.23	1	02/08/2022 11:00	02/10/2022 12:25	J
Di-n-octyl Phthalate	0.19 U	mg/Kg	0.24	0.19	1	02/08/2022 11:00	02/10/2022 12:25	J
Dibenzo[a,h]anthracene	0.0049 U	mg/Kg	0.24	0.0049	1	02/08/2022 11:00	02/10/2022 12:25	J
Diethyl phthalate	0.17 U	mg/Kg	0.24	0.17	1	02/08/2022 11:00	02/10/2022 12:25	J
Dimethyl phthalate	0.15 U	mg/Kg	0.48	0.15	1	02/08/2022 11:00	02/10/2022 12:25	J
Fluoranthene	0.0054 U	mg/Kg	0.0095	0.0054	1	02/08/2022 11:00	02/10/2022 12:25	J
Fluorene	0.0042 U	mg/Kg	0.0095	0.0042	1	02/08/2022 11:00	02/10/2022 12:25	J
Hexachlorobenzene	0.12 U	mg/Kg	0.24	0.12	1	02/08/2022 11:00	02/10/2022 12:25	J
Hexachlorobutadiene	0.080 U	mg/Kg	0.24	0.080	1	02/08/2022 11:00	02/10/2022 12:25	J
Hexachlorocyclopentadiene	0.079 U	mg/Kg	0.24	0.079	1	02/08/2022 11:00	02/10/2022 12:25	J
Hexachloroethane	0.14 U	mg/Kg	0.24	0.14	1	02/08/2022 11:00	02/10/2022 12:25	J
Indeno(1,2,3-cd)pyrene	0.0054 U	mg/Kg	0.0095	0.0054	1	02/08/2022 11:00	02/10/2022 12:25	J
Isophorone	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
N-Nitrosodi-n-propylamine	0.037 U	mg/Kg	0.24	0.037	1	02/08/2022 11:00	02/10/2022 12:25	J
N-Nitrosodimethylamine	0.17 U	mg/Kg	0.24	0.17	1	02/08/2022 11:00	02/10/2022 12:25	J
N-Nitrosodiphenylamine	0.13 U	mg/Kg	0.24	0.13	1	02/08/2022 11:00	02/10/2022 12:25	J
Naphthalene	0.0034 U	mg/Kg	0.0095	0.0034	1	02/08/2022 11:00	02/10/2022 12:25	J
Nitrobenzene	0.19 U	mg/Kg	0.24	0.19	1	02/08/2022 11:00	02/10/2022 12:25	J
Pentachlorophenol	0.082 U	mg/Kg	0.24	0.082	1	02/08/2022 11:00	02/10/2022 12:25	J
Phenanthrene	0.0044 U	mg/Kg	0.0095	0.0044	1	02/08/2022 11:00	02/10/2022 12:25	J
Phenol	0.16 U	mg/Kg	0.24	0.16	1	02/08/2022 11:00	02/10/2022 12:25	J
Pyrene	0.0058 U	mg/Kg	0.0095	0.0058	1	02/08/2022 11:00	02/10/2022 12:25	J
bis(2-Chloroethoxy)methane	0.18 U	mg/Kg	0.24	0.18	1	02/08/2022 11:00	02/10/2022 12:25	J
bis(2-Chloroethyl)Ether	0.14 U	mg/Kg	0.24	0.14	1	02/08/2022 11:00	02/10/2022 12:25	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355006 **Date Collected:** 01/28/2022 14:03 **Matrix:** Soil
Sample ID: S2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	0.15 U	mg/Kg	0.24	0.15	1	02/08/2022 11:00	02/10/2022 12:25	J
bis(2-Ethylhexyl) phthalate	0.19 U	mg/Kg	0.24	0.19	1	02/08/2022 11:00	02/10/2022 12:25	J
(SM 2540G)								
Percent Moisture	**30**	%	0.001	0.0010	1	01/31/2022 14:30	01/31/2022 14:30	J
VOLATILES (SW-846 5035/SW-846 8260B)								
1,1,1-Trichloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,1,2,2-Tetrachloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,1,2-Trichloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,1-Dichloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,1-Dichloroethylene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,2-Dichlorobenzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,2-Dichloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,2-Dichloropropane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,3-Dichlorobenzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
1,4-Dichlorobenzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
2-Chloroethyl Vinyl Ether	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Acrolein (Propenal)	0.0087 U	mg/Kg	0.043	0.0087	1	01/31/2022 08:38	01/31/2022 15:27	J
Acrylonitrile	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Benzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Bromodichloromethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Bromoform	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Bromomethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Carbon Tetrachloride	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355006 **Date Collected:** 01/28/2022 14:03 **Matrix:** Soil
Sample ID: S2 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Chlorobenzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Chloroethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Chloroform	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Chloromethane	0.0013 U	mg/Kg	0.0052	0.0013	1	01/31/2022 08:38	01/31/2022 15:27	J
Dibromochloromethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Dichlorodifluoromethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Ethylbenzene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Methylene Chloride	0.0013 U	mg/Kg	0.0052	0.0013	1	01/31/2022 08:38	01/31/2022 15:27	J
Tetrachloroethylene (PCE)	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Toluene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Trichloroethene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Trichlorofluoromethane	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Vinyl Chloride	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
Xylene (Total)	0.0020 U	mg/Kg	0.0078	0.0020	1	01/31/2022 08:38	01/31/2022 15:27	J
cis-1,2-Dichloroethylene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
cis-1,3-Dichloropropene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
trans-1,2-Dichloroethylene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J
trans-1,3-Dichloropropylene	0.00065 U	mg/Kg	0.0026	0.00065	1	01/31/2022 08:38	01/31/2022 15:27	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/Kg	30	31	102	69 - 134	J
Toluene-d8 (S)	ug/Kg	30	30	98	72 - 122	J
Bromofluorobenzene (S)	ug/Kg	30	33	108	79 - 126	J
Nonatricontane-C39 (S)	mg/Kg	6	6.70	113	36 - 132	J
o-Terphenyl (S)	mg/Kg	2	1.80	90	66 - 136	J
Phenol-d6 (S)	mg/Kg	1.70	1.50	91	33 - 122	J
2-Fluorobiphenyl (S)	mg/Kg	1.70	1.50	89	44 - 115	J
2-Fluorophenol (S)	mg/Kg	1.70	1.50	91	35 - 115	J
Nitrobenzene-d5 (S)	mg/Kg	1.70	1.40	86	37 - 122	J
p-Terphenyl-d14 (S)	mg/Kg	1.70	1.60	96	54 - 127	J
2,4,6-Tribromophenol (S)	mg/Kg	1.70	1.50	93	39 - 132	J
Decachlorobiphenyl (S)	ug/Kg	83	73	88	61 - 147	J
Tetrachloro-m-xylene (S)	ug/Kg	170	140	83	44 - 130	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355007 **Date Collected:** 01/28/2022 14:45 **Matrix:** Water
Sample ID: TW-3 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3010A/SW-846 6020)								
Antimony	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:26	J
Arsenic	**1.1**	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:26	J
Barium	**90**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:26	J
Beryllium	1.0 U	ug/L	4.0	1.0	1	02/01/2022 07:00	02/01/2022 16:26	J
Cadmium	0.25 U	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:26	J
Chromium	**3.2**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:26	J
Lead	**1.4 I**	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:26	J
Nickel	**2.9 I**	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:26	J
Selenium	1.2 U	ug/L	5.0	1.2	1	02/01/2022 07:00	02/01/2022 16:26	J
Silver	0.50 U	ug/L	2.0	0.50	1	02/01/2022 07:00	02/01/2022 16:26	J
Thallium	**0.29 I**	ug/L	1.0	0.25	1	02/01/2022 07:00	02/01/2022 16:26	J
METALS (SW-846 7470A)								
Mercury	0.000011 U	mg/L	0.00010	0.000011	1	02/01/2022 11:40	02/01/2022 17:22	J
SEMIVOLATILES (FL-PRO)								
TPH	**1000**	ug/L	680	600	1	02/02/2022 08:20	02/04/2022 08:52	J
SEMIVOLATILES (SW-846 3510C/SW-846 8082A)								
Aroclor 1016 (PCB-1016)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1221 (PCB-1221)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1232 (PCB-1232)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1242 (PCB-1242)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1248 (PCB-1248)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1254 (PCB-1254)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
Aroclor 1260 (PCB-1260)	0.12 U	ug/L	0.50	0.12	1	02/03/2022 09:00	02/05/2022 07:52	J
SEMIVOLATILES (SW-846 3510C/SW-846 8270C)								
1,2,4-Trichlorobenzene	0.69 U	ug/L	5.0	0.69	1	02/01/2022 09:00	02/01/2022 19:18	J
1,2-Dichlorobenzene	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 19:18	J
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	1	02/01/2022 09:00	02/01/2022 19:18	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355007 **Date Collected:** 01/28/2022 14:45 **Matrix:** Water
Sample ID: TW-3 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
1,3-Dichlorobenzene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 19:18	J
1,4-Dichlorobenzene	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 19:18	J
1-Methylnaphthalene	0.050 U	ug/L	0.20	0.050	1	02/01/2022 09:00	02/01/2022 19:18	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 19:18	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	1	02/01/2022 09:00	02/01/2022 19:18	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	1	02/01/2022 09:00	02/01/2022 19:18	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	1	02/01/2022 09:00	02/01/2022 19:18	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	1	02/01/2022 09:00	02/01/2022 19:18	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 19:18	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	1	02/01/2022 09:00	02/01/2022 19:18	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 19:18	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 19:18	J
2-Methylnaphthalene	0.049 U	ug/L	0.20	0.049	1	02/01/2022 09:00	02/01/2022 19:18	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 19:18	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 19:18	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 19:18	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	1	02/01/2022 09:00	02/01/2022 19:18	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	1	02/01/2022 09:00	02/01/2022 19:18	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	1	02/01/2022 09:00	02/01/2022 19:18	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 19:18	J
Acenaphthylene	0.042 U	ug/L	0.20	0.042	1	02/01/2022 09:00	02/01/2022 19:18	J
Anthracene	0.035 U	ug/L	0.20	0.035	1	02/01/2022 09:00	02/01/2022 19:18	J
Benzidine	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 19:18	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	1	02/01/2022 09:00	02/01/2022 19:18	J
Benzo[a]pyrene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 19:18	J
Benzo[b]fluoranthene	**0.073 I**	ug/L	0.10	0.012	1	02/01/2022 09:00	02/01/2022 19:18	J
Benzo[g,h,i]perylene	**0.10 I**	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 19:18	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355007 **Date Collected:** 01/28/2022 14:45 **Matrix:** Water
Sample ID: TW-3 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Benzo[k]fluoranthene	**0.094 I**	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 19:18	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 19:18	J
Chrysene	0.033 U	ug/L	0.20	0.033	1	02/01/2022 09:00	02/01/2022 19:18	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	1	02/01/2022 09:00	02/01/2022 19:18	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 19:18	J
Dibenzo[a,h]anthracene	**0.14 I**	ug/L	0.20	0.024	1	02/01/2022 09:00	02/01/2022 19:18	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 19:18	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	1	02/01/2022 09:00	02/01/2022 19:18	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	1	02/01/2022 09:00	02/01/2022 19:18	J
Fluorene	0.038 U	ug/L	0.20	0.038	1	02/01/2022 09:00	02/01/2022 19:18	J
Hexachlorobenzene	0.99 U	ug/L	5.0	0.99	1	02/01/2022 09:00	02/01/2022 19:18	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	1	02/01/2022 09:00	02/01/2022 19:18	J
Hexachlorocyclopentadiene	1.0 U	ug/L	5.0	1.0	1	02/01/2022 09:00	02/01/2022 19:18	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 19:18	J
Indeno(1,2,3-cd)pyrene	**0.15 I**	ug/L	0.20	0.011	1	02/01/2022 09:00	02/01/2022 19:18	J
Isophorone	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 19:18	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	1	02/01/2022 09:00	02/01/2022 19:18	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	1	02/01/2022 09:00	02/01/2022 19:18	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	1	02/01/2022 09:00	02/01/2022 19:18	J
Naphthalene	0.048 U	ug/L	0.20	0.048	1	02/01/2022 09:00	02/01/2022 19:18	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	1	02/01/2022 09:00	02/01/2022 19:18	J
Pentachlorophenol	0.95 U	ug/L	5.0	0.95	1	02/01/2022 09:00	02/01/2022 19:18	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	1	02/01/2022 09:00	02/01/2022 19:18	J
Phenol	0.54 U	ug/L	5.0	0.54	1	02/01/2022 09:00	02/01/2022 19:18	J
Pyrene	0.036 U	ug/L	0.20	0.036	1	02/01/2022 09:00	02/01/2022 19:18	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	1	02/01/2022 09:00	02/01/2022 19:18	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	1	02/01/2022 09:00	02/01/2022 19:18	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355007 **Date Collected:** 01/28/2022 14:45 **Matrix:** Water
Sample ID: TW-3 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	1	02/01/2022 09:00	02/01/2022 19:18	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	1	02/01/2022 09:00	02/01/2022 19:18	J
VOLATILES (SW-846 5030B/SW-846 8260B)								
1,1,1-Trichloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 19:07	J
1,1,2-Trichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
1,1-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
1,1-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
1,2-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
1,2-Dichloroethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
1,2-Dichloropropane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
1,3-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
1,4-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
2-Chloroethyl Vinyl Ether	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Acrolein (Propenal)	1.5 U	ug/L	5.0	1.5	1	01/31/2022 16:41	01/31/2022 19:07	J
Acrylonitrile	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Benzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Bromodichloromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Bromoform	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Bromomethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Chlorobenzene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Chloroethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Chloroform	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Chloromethane	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Dibromochloromethane	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 19:07	J
Dichlorodifluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J

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Workorder: 243 Comfort Road (J2201355)

Analytical Results

Lab ID: J2201355007 **Date Collected:** 01/28/2022 14:45 **Matrix:** Water
Sample ID: TW-3 **Date Received:** 01/28/2022 16:05

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Ethylbenzene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Methyl tert-butyl Ether (MTBE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Methylene Chloride	1.2 U	ug/L	5.0	1.2	1	01/31/2022 16:41	01/31/2022 19:07	J
Tetrachloroethylene (PCE)	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Toluene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Trichloroethene	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Trichlorofluoromethane	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
Vinyl Chloride	0.25 U	ug/L	1.0	0.25	1	01/31/2022 16:41	01/31/2022 19:07	J
Xylene (Total)	0.75 U	ug/L	3.0	0.75	1	01/31/2022 16:41	01/31/2022 19:07	J
cis-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
cis-1,3-Dichloropropene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 19:07	J
trans-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	1	01/31/2022 16:41	01/31/2022 19:07	J
trans-1,3-Dichloropropylene	0.20 U	ug/L	1.0	0.20	1	01/31/2022 16:41	01/31/2022 19:07	J

Analysis Results Comments

Decachlorobiphenyl

J4|Estimated Result

Tetrachloro-m-xylene

J4|Estimated Result

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Toluene-d8 (S)	ug/L	50	49	97	77 - 119	J
Bromofluorobenzene (S)	ug/L	50	55	111	86 - 123	J
1,2-Dichloroethane-d4 (S)	ug/L	50	54	107	70 - 128	J
Nonatricontane-C39 (S)	ug/L	600	520	86	40 - 129	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

Analytical Results

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
o-Terphenyl (S)	ug/L	200	150	75	66 - 139	J
2,4,6-Tribromophenol (S)	ug/L	50	45	90	48 - 147	J
Phenol-d6 (S)	ug/L	50	14	29	24 - 120	J
2-Fluorobiphenyl (S)	ug/L	50	38	76	42 - 138	J
2-Fluorophenol (S)	ug/L	50	20	41	31 - 134	J
Nitrobenzene-d5 (S)	ug/L	50	34	67	38 - 139	J
p-Terphenyl-d14 (S)	ug/L	50	42	84	61 - 154	J
Decachlorobiphenyl (S)	ug/L	0.50	0.16	**33**	44 - 136	J
Tetrachloro-m-xylene (S)	ug/L	1	0.51	**51**	61 - 119	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: CVAj/1389
Preparation Method: SW-846 7470A
Associated Lab IDs: J2201355002, J2201355005, J2201355007
Analysis Method: SW-846 7470A

Method Blank(4187971)

Parameter	Results	Units	PQL	MDL	Lab
Mercury	0.000011 U	mg/L	0.00010	0.000011	J

Lab Control Sample (4187972)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Mercury	mg/L	0.0020	0	102	80 - 120	J

Matrix Spike (4187973); Matrix Spike Duplicate (4187974); Parent Lab Sample (J2201355002)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/L	0.0020	0	87	80 - 120	0	93	7	20	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: CVAj/1394 **Analysis Method:** SW-846 7471A
Preparation Method: SW-846 7471A
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4195745)

Parameter	Results	Units	PQL	MDL	Lab
Mercury	0.0012 U	mg/Kg	0.0050	0.0012	J

Lab Control Sample (4195746)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Mercury	mg/Kg	0.10	.1	104	80 - 120	J

Matrix Spike (4195747); Matrix Spike Duplicate (4195748); Parent Lab Sample (J2201660001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/Kg	0.0880	.1	105	80 - 120	.1	104	1	20	J

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Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: GCSj/2708 **Analysis Method:** FL-PRO
Preparation Method: FL-PRO
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Method Blank(4189863)

Parameter	Results	Units	PQL	MDL	Lab
TPH	600 U	ug/L	680	600	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nonatricontane-C39 (S)	mg/L	0.60	0.55	92	40 - 129	
o-Terphenyl (S)	mg/L	0.20	0.18	91	66 - 139	

Lab Control Sample (4189864)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
TPH	ug/L	3400	3000	88	53 - 121	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nonatricontane-C39 (S)	mg/L	0.60	0.59	99	40 - 129	
o-Terphenyl (S)	mg/L	0.20	0.18	88	66 - 139	

Matrix Spike (4189865); Matrix Spike Duplicate (4189866); Parent Lab Sample (J2201345001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
TPH	ug/L	3400	5500	87	53 - 121	5200	77	12	20	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nonatricontane-C39 (S)	mg/L	0.60	0.54	90	40 - 129	0.51	86	5	20	
o-Terphenyl (S)	mg/L	0.20	0.18	92	66 - 139	0.15	73	**23**	20	

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Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: GCSj/2709 **Analysis Method:** FL-PRO
Preparation Method: FL-PRO
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4191672)

Parameter	Results	Units	PQL	MDL	Lab
TPH	9.8 U	mg/Kg	17	9.8	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nonatricontane-C39 (S)	mg/L	6	6.40	108	36 - 132	
o-Terphenyl (S)	mg/L	2	2.20	110	66 - 136	

Lab Control Sample (4191673)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
TPH	mg/Kg	34	22	64	49 - 128	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nonatricontane-C39 (S)	mg/L	6	5.90	99	36 - 132	
o-Terphenyl (S)	mg/L	2	2.20	108	66 - 136	

Matrix Spike (4191674); Matrix Spike Duplicate (4191675); Parent Lab Sample (J2201355003)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
TPH	mg/Kg	34	60	**47**	49 - 128	74	88	**61**	25	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nonatricontane-C39 (S)	mg/L	6	5.70	96	36 - 132	6.40	106	10	25	
o-Terphenyl (S)	mg/L	2	1.50	76	66 - 136	1.70	83	9	25	

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Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: GCSj/2732 **Analysis Method:** SW-846 8082A
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4194149)

Parameter	Results	Units	PQL	MDL	Lab
Aroclor 1016 (PCB-1016)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1221 (PCB-1221)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1232 (PCB-1232)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1242 (PCB-1242)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1248 (PCB-1248)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1254 (PCB-1254)	0.025 U	mg/Kg	0.10	0.025	J
Aroclor 1260 (PCB-1260)	0.025 U	mg/Kg	0.10	0.025	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0830	0.07	84	61 - 147	
Tetrachloro-m-xylene (S)	mg/L	0.17	0.13	80	44 - 130	

Lab Control Sample (4194150); Lab Control Sample Duplicate (4194151)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aroclor 1016 (PCB-1016)	mg/Kg	0.33	.29	89	47 - 134	.12	75	17		J
Aroclor 1260 (PCB-1260)	mg/Kg	0.33	.34	103	53 - 140	.15	93	10		J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.17	0.16	99	61 - 147	0.08	91	8		
Tetrachloro-m-xylene (S)	mg/L	0.33	0.34	102	44 - 130	0.15	89	14		

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Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: GCSj/2734
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007
Analysis Method: SW-846 8082A

Method Blank(4191706)

Parameter	Results	Units	PQL	MDL	Lab
Aroclor 1016 (PCB-1016)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1221 (PCB-1221)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1232 (PCB-1232)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1242 (PCB-1242)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1248 (PCB-1248)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1254 (PCB-1254)	0.12 U	ug/L	0.50	0.12	J
Aroclor 1260 (PCB-1260)	0.12 U	ug/L	0.50	0.12	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	94	44 - 136	
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	90	61 - 119	

Lab Control Sample (4191707); Lab Control Sample Duplicate (4191708)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Aroclor 1016 (PCB-1016)	ug/L	1	.84	84	46 - 129	.8	80	5	30	J
Aroclor 1260 (PCB-1260)	ug/L	1	.9	90	45 - 134	.92	92	2	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Decachlorobiphenyl (S)	mg/L	0.0005	0	93	44 - 136	0	94	1		
Tetrachloro-m-xylene (S)	mg/L	0.0010	0	93	61 - 119	0	93	0		

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: ICMj/1743
Preparation Method: SW-846 3010A
Associated Lab IDs: J2201355002, J2201355005, J2201355007
Analysis Method: SW-846 6020

Method Blank(4186847)

Parameter	Results	Units	PQL	MDL	Lab
Beryllium	1.0 U	ug/L	4.0	1.0	J
Chromium	0.50 U	ug/L	2.0	0.50	J
Nickel	1.2 U	ug/L	5.0	1.2	J
Arsenic	0.25 U	ug/L	1.0	0.25	J
Selenium	1.2 U	ug/L	5.0	1.2	J
Silver	0.50 U	ug/L	2.0	0.50	J
Cadmium	0.25 U	ug/L	1.0	0.25	J
Antimony	1.0 U	ug/L	4.0	1.0	J
Barium	0.50 U	ug/L	2.0	0.50	J
Thallium	0.25 U	ug/L	1.0	0.25	J
Lead	0.50 U	ug/L	2.0	0.50	J

Lab Control Sample (4186848)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Beryllium	ug/L	20	24	120	80 - 120	J
Chromium	ug/L	20	19	95	80 - 120	J
Nickel	ug/L	20	19	96	80 - 120	J
Arsenic	ug/L	20	20	99	80 - 120	J
Selenium	ug/L	20	21	105	80 - 120	J
Silver	ug/L	20	20	100	80 - 120	J
Cadmium	ug/L	20	20	102	80 - 120	J
Antimony	ug/L	20	18	88	80 - 120	J
Barium	ug/L	20	20	101	80 - 120	J
Thallium	ug/L	20	20	101	80 - 120	J
Lead	ug/L	20	20	101	80 - 120	J

Matrix Spike (4186849); Matrix Spike Duplicate (4186850); Parent Lab Sample (G2200936001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Beryllium	ug/L	20	23	115	75 - 125	24	122	6	20	J
Chromium	ug/L	20	20	98	75 - 125	21	104	6	20	J
Nickel	ug/L	20	19	96	75 - 125	20	102	6	20	J
Arsenic	ug/L	20	20	98	75 - 125	21	103	5	20	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: ICMj/1743
Preparation Method: SW-846 3010A
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 6020

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Selenium	ug/L	20	20	98	75 - 125	22	110	12	20	J
Silver	ug/L	20	20	101	75 - 125	21	105	4	20	J
Cadmium	ug/L	20	21	103	75 - 125	22	108	5	20	J
Antimony	ug/L	20	22	112	75 - 125	21	105	6	20	J
Barium	ug/L	20	27	105	75 - 125	27	109	4	20	J
Thallium	ug/L	20	21	104	75 - 125	22	110	6	20	J
Lead	ug/L	20	21	101	75 - 125	23	109	8	20	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: ICPj/1702 **Analysis Method:** SW-846 6010
Preparation Method: SW-846 3050B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4188949)

Parameter	Results	Units	PQL	MDL	Lab
Silver	0.20 U	mg/Kg	0.80	0.20	J
Arsenic	0.50 U	mg/Kg	2.0	0.50	J
Barium	0.50 U	mg/Kg	2.0	0.50	J
Beryllium	0.10 U	mg/Kg	0.40	0.10	J
Cadmium	0.050 U	mg/Kg	0.20	0.050	J
Chromium	0.20 U	mg/Kg	0.80	0.20	J
Nickel	0.50 U	mg/Kg	2.0	0.50	J
Lead	0.50 U	mg/Kg	2.0	0.50	J
Antimony	0.50 U	mg/Kg	2.0	0.50	J
Selenium	1.0 U	mg/Kg	4.0	1.0	J
Thallium	3.0 U	mg/Kg	12	3.0	J

Lab Control Sample (4188950)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Silver	mg/Kg	4	3.4	85	80 - 120	J
Arsenic	mg/Kg	10	8.5	85	80 - 120	J
Barium	mg/Kg	10	8.9	89	80 - 120	J
Beryllium	mg/Kg	2	1.7	87	80 - 120	J
Cadmium	mg/Kg	1	.89	89	80 - 120	J
Chromium	mg/Kg	4	3.5	87	80 - 120	J
Nickel	mg/Kg	10	8.8	88	80 - 120	J
Lead	mg/Kg	10	8.5	85	80 - 120	J
Antimony	mg/Kg	10	8.4	85	80 - 120	J
Selenium	mg/Kg	20	17	87	80 - 120	J
Thallium	mg/Kg	60	52	87	80 - 120	J

Matrix Spike (4188951); Matrix Spike Duplicate (4188952); Parent Lab Sample (J2201315001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Silver	mg/Kg	3.80	3.4	87	75 - 125	3.2	82	6	20	J
Arsenic	mg/Kg	9.60	7.3	76	75 - 125	6.7	**68**	11	20	J
Barium	mg/Kg	9.60	25	89	75 - 125	24	76	16	20	J
Beryllium	mg/Kg	1.90	1.7	88	75 - 125	1.6	82	7	20	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: ICPj/1702 **Analysis Method:** SW-846 6010
Preparation Method: SW-846 3050B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cadmium	mg/Kg	0.96	.85	88	75 - 125	.82	85	3	20	J
Chromium	mg/Kg	3.80	4.9	91	75 - 125	4.7	83	9	20	J
Nickel	mg/Kg	9.60	9.1	87	75 - 125	8.9	83	5	20	J
Lead	mg/Kg	9.60	9.3	97	75 - 125	8.8	90	7	20	J
Antimony	mg/Kg	9.60	6	**62**	75 - 125	5.9	**61**	2	20	J
Selenium	mg/Kg	19	16	84	75 - 125	16	82	2	20	J
Thallium	mg/Kg	58	53	92	75 - 125	51	87	6	20	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: MSSj/1857
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007
Analysis Method: SW-846 8270C

Method Blank(4187274)

Parameter	Results	Units	PQL	MDL	Lab
Phenol	0.54 U	ug/L	5.0	0.54	J
2-Chlorophenol	1.5 U	ug/L	5.0	1.5	J
2-Nitrophenol	0.63 U	ug/L	5.0	0.63	J
2,4-Dimethylphenol	2.6 U	ug/L	5.0	2.6	J
2,4-Dichlorophenol	0.90 U	ug/L	5.0	0.90	J
4-Chloro-3-methylphenol	0.63 U	ug/L	5.0	0.63	J
2,4,6-Trichlorophenol	1.4 U	ug/L	5.0	1.4	J
2,4-Dinitrophenol	1.1 U	ug/L	10	1.1	J
4-Nitrophenol	2.9 U	ug/L	5.0	2.9	J
2-Methyl-4,6-dinitrophenol	1.2 U	ug/L	5.0	1.2	J
Pentachlorophenol	0.95 U	ug/L	5.0	0.95	J
N-Nitrosodimethylamine	0.93 U	ug/L	5.0	0.93	J
bis(2-Chloroethyl)Ether	1.5 U	ug/L	5.0	1.5	J
1,3-Dichlorobenzene	1.0 U	ug/L	5.0	1.0	J
1,4-Dichlorobenzene	2.0 U	ug/L	5.0	2.0	J
1,2-Dichlorobenzene	1.4 U	ug/L	5.0	1.4	J
bis(2-Chloroisopropyl) Ether	1.4 U	ug/L	5.0	1.4	J
N-Nitrosodi-n-propylamine	2.2 U	ug/L	5.0	2.2	J
Hexachloroethane	1.2 U	ug/L	5.0	1.2	J
Nitrobenzene	1.1 U	ug/L	5.0	1.1	J
Isophorone	1.1 U	ug/L	5.0	1.1	J
bis(2-Chloroethoxy)methane	1.2 U	ug/L	5.0	1.2	J
1,2,4-Trichlorobenzene	0.69 U	ug/L	5.0	0.69	J
Naphthalene	0.048 U	ug/L	0.20	0.048	J
Hexachlorobutadiene	1.3 U	ug/L	5.0	1.3	J
2-Methylnaphthalene	0.049 U	ug/L	0.20	0.049	J
1-Methylnaphthalene	0.050 U	ug/L	0.20	0.050	J
Hexachlorocyclopentadiene	1.0 U	ug/L	5.0	1.0	J
2-Chloronaphthalene	1.7 U	ug/L	5.0	1.7	J
Dimethyl phthalate	1.8 U	ug/L	10	1.8	J
2,6-Dinitrotoluene (2,6-DNT)	2.0 U	ug/L	5.0	2.0	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1857
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8270C

Parameter	Results	Units	PQL	MDL	Lab
Acenaphthylene	0.042 U	ug/L	0.20	0.042	J
Acenaphthene	0.040 U	ug/L	0.20	0.040	J
2,4-Dinitrotoluene (2,4-DNT)	1.8 U	ug/L	5.0	1.8	J
Diethyl phthalate	2.1 U	ug/L	5.0	2.1	J
Fluorene	0.038 U	ug/L	0.20	0.038	J
4-Chlorophenyl Phenyl Ether	1.6 U	ug/L	5.0	1.6	J
1,2-Diphenylhydrazine	0.96 U	ug/L	5.0	0.96	J
4-Bromophenyl Phenyl Ether	1.1 U	ug/L	5.0	1.1	J
Hexachlorobenzene	0.99 U	ug/L	5.0	0.99	J
Phenanthrene	0.040 U	ug/L	0.20	0.040	J
Anthracene	0.035 U	ug/L	0.20	0.035	J
Di-n-Butyl Phthalate	0.88 U	ug/L	5.0	0.88	J
Fluoranthene	0.037 U	ug/L	0.20	0.037	J
Benzidine	1.2 U	ug/L	5.0	1.2	J
Pyrene	0.036 U	ug/L	0.20	0.036	J
Butyl benzyl phthalate	1.1 U	ug/L	5.0	1.1	J
Benzo[a]anthracene	0.012 U	ug/L	0.20	0.012	J
3,3`-Dichlorobenzidine	1.3 U	ug/L	5.0	1.3	J
Chrysene	0.033 U	ug/L	0.20	0.033	J
bis(2-Ethylhexyl) phthalate	2.0 U	ug/L	5.0	2.0	J
Di-n-octyl Phthalate	1.2 U	ug/L	5.0	1.2	J
Benzo[b]fluoranthene	0.012 U	ug/L	0.10	0.012	J
Benzo[k]fluoranthene	0.048 U	ug/L	0.20	0.048	J
Benzo[a]pyrene	0.037 U	ug/L	0.20	0.037	J
Indeno(1,2,3-cd)pyrene	0.011 U	ug/L	0.20	0.011	J
Dibenzo[a,h]anthracene	0.024 U	ug/L	0.20	0.024	J
Benzo[g,h,i]perylene	0.048 U	ug/L	0.20	0.048	J
N-Nitrosodiphenylamine	2.1 U	ug/L	5.0	2.1	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.04	88	48 - 147	
2-Fluorobiphenyl (S)	mg/L	0.05	0.05	90	42 - 138	
2-Fluorophenol (S)	mg/L	0.05	0.05	97	31 - 134	

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1857
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8270C

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrobenzene-d5 (S)	mg/L	0.05	0.05	89	38 - 139	
Phenol-d6 (S)	mg/L	0.05	0.05	97	24 - 120	
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	93	61 - 154	

Lab Control Sample (4187275); Lab Control Sample Duplicate (4187276)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodimethylamine	ug/L	50	33	66		32	64	3		J
Phenol	ug/L	50	36	73	19 - 106	34	69	6	20	J
bis(2-Chloroethyl)Ether	ug/L	50	39	78		37	73	7		J
2-Chlorophenol	ug/L	50	39	79		38	76	4		J
1,3-Dichlorobenzene	ug/L	50	37	75		36	72	4		J
1,4-Dichlorobenzene	ug/L	50	38	75	29 - 112	36	73	3	20	J
1,2-Dichlorobenzene	ug/L	50	38	77		36	73	5		J
bis(2-Chloroisopropyl) Ethe	ug/L	50	38	76		36	73	4		J
N-Nitrosodi-n-propylamine	ug/L	50	41	83		40	80	4		J
Hexachloroethane	ug/L	50	37	75	21 - 115	36	71	5	20	J
Nitrobenzene	ug/L	50	40	80	45 - 121	39	79	1	20	J
Isophorone	ug/L	50	40	80		39	79	1		J
2-Nitrophenol	ug/L	50	42	83		41	83	0		J
2,4-Dimethylphenol	ug/L	50	43	86		43	87	1		J
bis(2-Chloroethoxy)methan	ug/L	50	53	105		51	102	3		J
2,4-Dichlorophenol	ug/L	50	41	82	47 - 121	41	82	0	20	J
1,2,4-Trichlorobenzene	ug/L	50	40	80		40	81	1		J
Naphthalene	ug/L	50	39	78		39	77	1		J
Hexachlorobutadiene	ug/L	50	42	84	22 - 124	41	81	4	20	J
4-Chloro-3-methylphenol	ug/L	50	43	85	52 - 119	43	87	2	20	J
2-Methylnaphthalene	ug/L	50	39	79		39	78	1		J
1-Methylnaphthalene	ug/L	50	40	80		39	78	3		J
Hexachlorocyclopentadiene	ug/L	50	43	86		43	85	1		J
2,4,6-Trichlorophenol	ug/L	50	42	83	50 - 125	41	82	1	20	J
2-Chloronaphthalene	ug/L	50	41	83		40	80	4		J
Dimethyl phthalate	ug/L	50	44	89		43	87	2		J
2,6-Dinitrotoluene (2,6-DNT	ug/L	50	45	89		44	88	1		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1857
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8270C

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Acenaphthylene	ug/L	50	43	86		42	84	2		J
Acenaphthene	ug/L	50	42	83	47 - 122	40	80	4	20	J
2,4-Dinitrophenol	ug/L	50	39	79		42	84	6		J
2,4-Dinitrotoluene (2,4-DNT	ug/L	50	46	92	57 - 128	44	89	3	20	J
4-Nitrophenol	ug/L	50	35	71		36	71	0		J
Diethyl phthalate	ug/L	50	45	89		44	88	1		J
Fluorene	ug/L	50	43	86	52 - 124	42	84	2	20	J
4-Chlorophenyl Phenyl Eth	ug/L	50	45	90		44	87	3		J
2-Methyl-4,6-dinitrophenol	ug/L	50	53	106		53	106	0		J
N-Nitrosodiphenylamine	ug/L	50	40	80		39	79	1		J
1,2-Diphenylhydrazine	ug/L	50	44	89		43	86	3		J
4-Bromophenyl Phenyl Eth	ug/L	50	45	91		45	90	1		J
Hexachlorobenzene	ug/L	50	46	91	53 - 125	45	90	1	20	J
Pentachlorophenol	ug/L	50	40	81	35 - 138	41	82	1	20	J
Phenanthrene	ug/L	50	45	90		44	88	2		J
Anthracene	ug/L	50	46	92		44	89	3		J
Di-n-Butyl Phthalate	ug/L	50	48	95		47	94	1		J
Fluoranthene	ug/L	50	47	94	57 - 128	46	91	3	20	J
Pyrene	ug/L	50	48	96		46	92	4		J
Butyl benzyl phthalate	ug/L	50	53	105		51	102	3		J
Benzo[a]anthracene	ug/L	50	46	93		45	89	4		J
Chrysene	ug/L	50	48	95		46	92	3		J
bis(2-Ethylhexyl) phthalate	ug/L	50	51	102	55 - 135	49	99	3	20	J
Di-n-octyl Phthalate	ug/L	50	53	105		49	97	8		J
Benzo[b]fluoranthene	ug/L	50	49	97		47	93	4		J
Benzo[k]fluoranthene	ug/L	50	47	93		45	90	3		J
Benzo[a]pyrene	ug/L	50	47	94	54 - 128	46	91	3	20	J
Indeno(1,2,3-cd)pyrene	ug/L	50	52	105		51	101	4		J
Dibenzo[a,h]anthracene	ug/L	50	48	96		46	92	4		J
Benzo[g,h,i]perylene	ug/L	50	46	91		43	85	7		J
Benzidine	ug/L	50	22	45		23	46	2		J
3,3`-Dichlorobenzidine	ug/L	50	44	89		42	84	6		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1857
Preparation Method: SW-846 3510C
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8270C

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4,6-Tribromophenol (S)	mg/L	0.05	0.05	97	48 - 147	0.05	98	1		
2-Fluorobiphenyl (S)	mg/L	0.05	0.04	86	42 - 138	0.04	86	0		
2-Fluorophenol (S)	mg/L	0.05	0.04	79	31 - 134	0.04	76	4		
Nitrobenzene-d5 (S)	mg/L	0.05	0.04	81	38 - 139	0.04	81	0		
Phenol-d6 (S)	mg/L	0.05	0.04	75	24 - 120	0.04	72	4		
p-Terphenyl-d14 (S)	mg/L	0.05	0.05	97	61 - 154	0.05	93	4		

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4196420)

Parameter	Results	Units	PQL	MDL	Lab
Phenol	0.12 U	mg/Kg	0.17	0.12	J
2-Chlorophenol	0.091 U	mg/Kg	0.17	0.091	J
2-Nitrophenol	0.064 U	mg/Kg	0.17	0.064	J
2,4-Dimethylphenol	0.099 U	mg/Kg	0.17	0.099	J
2,4-Dichlorophenol	0.062 U	mg/Kg	0.17	0.062	J
4-Chloro-3-methylphenol	0.087 U	mg/Kg	0.17	0.087	J
2,4,6-Trichlorophenol	0.088 U	mg/Kg	0.17	0.088	J
2,4-Dinitrophenol	0.061 U	mg/Kg	0.33	0.061	J
4-Nitrophenol	0.14 U	mg/Kg	0.17	0.14	J
2-Methyl-4,6-dinitrophenol	0.068 U	mg/Kg	0.33	0.068	J
Pentachlorophenol	0.058 U	mg/Kg	0.17	0.058	J
N-Nitrosodimethylamine	0.12 U	mg/Kg	0.17	0.12	J
bis(2-Chloroethyl)Ether	0.10 U	mg/Kg	0.17	0.10	J
1,3-Dichlorobenzene	0.095 U	mg/Kg	0.17	0.095	J
1,4-Dichlorobenzene	0.094 U	mg/Kg	0.17	0.094	J
1,2-Dichlorobenzene	0.099 U	mg/Kg	0.17	0.099	J
bis(2-Chloroisopropyl) Ether	0.10 U	mg/Kg	0.17	0.10	J
N-Nitrosodi-n-propylamine	0.026 U	mg/Kg	0.17	0.026	J
Hexachloroethane	0.095 U	mg/Kg	0.17	0.095	J
Nitrobenzene	0.14 U	mg/Kg	0.17	0.14	J
Isophorone	0.091 U	mg/Kg	0.17	0.091	J
bis(2-Chloroethoxy)methane	0.12 U	mg/Kg	0.17	0.12	J
1,2,4-Trichlorobenzene	0.059 U	mg/Kg	0.17	0.059	J
Naphthalene	0.0024 U	mg/Kg	0.0067	0.0024	J
Hexachlorobutadiene	0.057 U	mg/Kg	0.17	0.057	J
2-Methylnaphthalene	0.0023 U	mg/Kg	0.0067	0.0023	J
1-Methylnaphthalene	0.0023 U	mg/Kg	0.0067	0.0023	J
Hexachlorocyclopentadiene	0.056 U	mg/Kg	0.17	0.056	J
2-Chloronaphthalene	0.11 U	mg/Kg	0.17	0.11	J
Dimethyl phthalate	0.10 U	mg/Kg	0.33	0.10	J
2,6-Dinitrotoluene (2,6-DNT)	0.079 U	mg/Kg	0.17	0.079	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Results	Units	PQL	MDL	Lab
Acenaphthylene	0.0034 U	mg/Kg	0.0067	0.0034	J
Acenaphthene	0.0026 U	mg/Kg	0.0067	0.0026	J
2,4-Dinitrotoluene (2,4-DNT)	0.077 U	mg/Kg	0.17	0.077	J
Diethyl phthalate	0.12 U	mg/Kg	0.17	0.12	J
Fluorene	0.0030 U	mg/Kg	0.0067	0.0030	J
4-Chlorophenyl Phenyl Ether	0.094 U	mg/Kg	0.17	0.094	J
1,2-Diphenylhydrazine	0.14 U	mg/Kg	0.17	0.14	J
4-Bromophenyl Phenyl Ether	0.081 U	mg/Kg	0.17	0.081	J
Hexachlorobenzene	0.083 U	mg/Kg	0.17	0.083	J
Phenanthrene	0.0031 U	mg/Kg	0.0067	0.0031	J
Anthracene	0.0036 U	mg/Kg	0.0067	0.0036	J
Di-n-Butyl Phthalate	0.16 U	mg/Kg	0.17	0.16	J
Fluoranthene	0.0038 U	mg/Kg	0.0067	0.0038	J
Benzidine	0.036 U	mg/Kg	0.17	0.036	J
Pyrene	0.0041 U	mg/Kg	0.0067	0.0041	J
Butyl benzyl phthalate	0.14 U	mg/Kg	0.17	0.14	J
Benzo[a]anthracene	0.0042 U	mg/Kg	0.0067	0.0042	J
3,3`-Dichlorobenzidine	0.092 U	mg/Kg	0.17	0.092	J
Chrysene	0.0044 U	mg/Kg	0.0067	0.0044	J
bis(2-Ethylhexyl) phthalate	0.14 U	mg/Kg	0.17	0.14	J
Di-n-octyl Phthalate	0.14 U	mg/Kg	0.17	0.14	J
Benzo[b]fluoranthene	0.0043 U	mg/Kg	0.0067	0.0043	J
Benzo[k]fluoranthene	0.0041 U	mg/Kg	0.0067	0.0041	J
Benzo[a]pyrene	0.0059 U	mg/Kg	0.0067	0.0059	J
Indeno(1,2,3-cd)pyrene	0.0038 U	mg/Kg	0.0067	0.0038	J
Dibenzo[a,h]anthracene	0.0035 U	mg/Kg	0.17	0.0035	J
Benzo[g,h,i]perylene	0.0048 U	mg/Kg	0.0067	0.0048	J
N-Nitrosodiphenylamine	0.089 U	mg/Kg	0.17	0.089	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	1.70	1.50	89	39 - 132	
2-Fluorobiphenyl (S)	mg/L	1.70	1.50	90	44 - 115	
2-Fluorophenol (S)	mg/L	1.70	1.60	95	35 - 115	

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Nitrobenzene-d5 (S)	mg/L	1.70	1.50	89	37 - 122	
Phenol-d6 (S)	mg/L	1.70	1.60	97	33 - 122	
p-Terphenyl-d14 (S)	mg/L	1.70	1.70	104	54 - 127	

Lab Control Sample (4196421)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
N-Nitrosodimethylamine	mg/Kg	1.70	1.2	71		J
Phenol	mg/Kg	1.70	1.3	76	34 - 121	J
bis(2-Chloroethyl)Ether	mg/Kg	1.70	1.2	74		J
2-Chlorophenol	mg/Kg	1.70	1.2	73		J
1,3-Dichlorobenzene	mg/Kg	1.70	1.2	70		J
1,4-Dichlorobenzene	mg/Kg	1.70	1.2	71	37 - 132	J
1,2-Dichlorobenzene	mg/Kg	1.70	1.2	72		J
bis(2-Chloroisopropyl) Ether	mg/Kg	1.70	1.2	72		J
N-Nitrosodi-n-propylamine	mg/Kg	1.70	1.3	76		J
Hexachloroethane	mg/Kg	1.70	1.2	71	28 - 117	J
Nitrobenzene	mg/Kg	1.70	1.3	77	34 - 122	J
Isophorone	mg/Kg	1.70	1.3	76		J
2-Nitrophenol	mg/Kg	1.70	1.3	80		J
2,4-Dimethylphenol	mg/Kg	1.70	1.4	82		J
bis(2-Chloroethoxy)methane	mg/Kg	1.70	1.3	75		J
2,4-Dichlorophenol	mg/Kg	1.70	1.2	72	40 - 122	J
1,2,4-Trichlorobenzene	mg/Kg	1.70	1.3	77		J
Naphthalene	mg/Kg	1.70	1.2	74		J
Hexachlorobutadiene	mg/Kg	1.70	1.3	79	32 - 123	J
4-Chloro-3-methylphenol	mg/Kg	1.70	1.4	82	45 - 122	J
2-Methylnaphthalene	mg/Kg	1.70	1.3	75		J
1-Methylnaphthalene	mg/Kg	1.70	1.3	76		J
Hexachlorocyclopentadiene	mg/Kg	1.70	1.3	79		J
2,4,6-Trichlorophenol	mg/Kg	1.70	1.3	76	39 - 126	J
2-Chloronaphthalene	mg/Kg	1.70	1.2	74		J
Dimethyl phthalate	mg/Kg	1.70	1.3	79		J
2,6-Dinitrotoluene (2,6-DNT)	mg/Kg	1.70	1.3	80		J
Acenaphthylene	mg/Kg	1.70	1.3	76		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Acenaphthene	mg/Kg	1.70	1.2	74	40 - 123	J
2,4-Dinitrophenol	mg/Kg	1.70	1.2	72		J
2,4-Dinitrotoluene (2,4-DNT)	mg/Kg	1.70	1.4	81	48 - 126	J
4-Nitrophenol	mg/Kg	1.70	1	63		J
Diethyl phthalate	mg/Kg	1.70	1.3	79		J
Fluorene	mg/Kg	1.70	1.3	77	43 - 125	J
4-Chlorophenyl Phenyl Ether	mg/Kg	1.70	1.3	79		J
2-Methyl-4,6-dinitrophenol	mg/Kg	1.70	1.6	94		J
N-Nitrosodiphenylamine	mg/Kg	1.70	1.2	70		J
1,2-Diphenylhydrazine	mg/Kg	1.70	1.3	78		J
4-Bromophenyl Phenyl Ether	mg/Kg	1.70	1.3	79		J
Hexachlorobenzene	mg/Kg	1.70	1.3	81	45 - 122	J
Pentachlorophenol	mg/Kg	1.70	1.2	72	25 - 133	J
Phenanthrene	mg/Kg	1.70	1.3	79		J
Anthracene	mg/Kg	1.70	1.3	80		J
Di-n-Butyl Phthalate	mg/Kg	1.70	1.4	83		J
Fluoranthene	mg/Kg	1.70	1.4	82	50 - 127	J
Pyrene	mg/Kg	1.70	1.4	84		J
Butyl benzyl phthalate	mg/Kg	1.70	1.5	90		J
Benzo[a]anthracene	mg/Kg	1.70	1.3	81		J
Chrysene	mg/Kg	1.70	1.4	82		J
bis(2-Ethylhexyl) phthalate	mg/Kg	1.70	1.5	88	51 - 133	J
Di-n-octyl Phthalate	mg/Kg	1.70	1.5	88		J
Benzo[b]fluoranthene	mg/Kg	1.70	1.4	86		J
Benzo[k]fluoranthene	mg/Kg	1.70	1.3	81		J
Benzo[a]pyrene	mg/Kg	1.70	1.4	83	45 - 129	J
Indeno(1,2,3-cd)pyrene	mg/Kg	1.70	1.5	93		J
Dibenzo[a,h]anthracene	mg/Kg	1.70	1.4	83		J
Benzo[g,h,i]perylene	mg/Kg	1.70	1.3	79		J
Benzidine	mg/Kg	1.70	.54	33		J
3,3`-Dichlorobenzidine	mg/Kg	1.70	1.1	63		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
2,4,6-Tribromophenol (S)	mg/L	1.70	1.60	97	39 - 132	
2-Fluorobiphenyl (S)	mg/L	1.70	1.50	87	44 - 115	
2-Fluorophenol (S)	mg/L	1.70	1.50	91	35 - 115	
Nitrobenzene-d5 (S)	mg/L	1.70	1.50	88	37 - 122	
Phenol-d6 (S)	mg/L	1.70	1.50	90	33 - 122	
p-Terphenyl-d14 (S)	mg/L	1.70	1.60	95	54 - 127	

Matrix Spike (4196422); Matrix Spike Duplicate (4196423); Parent Lab Sample (J2201355004)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
N-Nitrosodimethylamine	mg/Kg	1.70	1.4	81		1.3	80	1	30	J
Phenol	mg/Kg	1.70	1.4	85	34 - 121	1.4	84	1	30	J
bis(2-Chloroethyl)Ether	mg/Kg	1.70	1.3	79		1.3	80	1	30	J
2-Chlorophenol	mg/Kg	1.70	1.3	80		1.4	82	2	30	J
1,3-Dichlorobenzene	mg/Kg	1.70	1.3	77		1.3	76	1	30	J
1,4-Dichlorobenzene	mg/Kg	1.70	1.3	75	37 - 132	1.3	76	1	30	J
1,2-Dichlorobenzene	mg/Kg	1.70	1.3	78		1.3	78	0	30	J
bis(2-Chloroisopropyl) Ethe	mg/Kg	1.70	1.3	79		1.3	78	1	30	J
N-Nitrosodi-n-propylamine	mg/Kg	1.70	1.4	84		1.4	83	1	30	J
Hexachloroethane	mg/Kg	1.70	1.3	75	28 - 117	1.3	78	4	30	J
Nitrobenzene	mg/Kg	1.70	1.4	81	34 - 122	1.4	83	2	30	J
Isophorone	mg/Kg	1.70	1.3	81		1.4	82	1	30	J
2-Nitrophenol	mg/Kg	1.70	1.4	85		1.5	88	3	30	J
2,4-Dimethylphenol	mg/Kg	1.70	1.5	91		1.5	93	2	30	J
bis(2-Chloroethoxy)methan	mg/Kg	1.70	1.3	80		1.3	81	1	30	J
2,4-Dichlorophenol	mg/Kg	1.70	1.5	90	40 - 122	1.5	90	0	30	J
1,2,4-Trichlorobenzene	mg/Kg	1.70	1.4	85		1.4	86	1	30	J
Naphthalene	mg/Kg	1.70	1.3	79		1.4	81	2	30	J
Hexachlorobutadiene	mg/Kg	1.70	1.4	87	32 - 123	1.5	89	2	30	J
4-Chloro-3-methylphenol	mg/Kg	1.70	1.5	91	45 - 122	1.6	94	3	30	J
2-Methylnaphthalene	mg/Kg	1.70	1.4	82		1.4	82	0	30	J
1-Methylnaphthalene	mg/Kg	1.70	1.4	82		1.4	83	1	30	J
Hexachlorocyclopentadiene	mg/Kg	1.70	1.4	86		1.4	87	1	30	J
2,4,6-Trichlorophenol	mg/Kg	1.70	1.5	91	39 - 126	1.5	90	1	30	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2-Chloronaphthalene	mg/Kg	1.70	1.4	82		1.6	96	16	30	J
Dimethyl phthalate	mg/Kg	1.70	1.5	87		1.4	86	1	30	J
2,6-Dinitrotoluene (2,6-DNT	mg/Kg	1.70	1.4	87		1.4	87	0	30	J
Acenaphthylene	mg/Kg	1.70	1.4	86		1.4	85	1	30	J
Acenaphthene	mg/Kg	1.70	1.4	83	40 - 123	1.4	83	0	30	J
2,4-Dinitrophenol	mg/Kg	1.70	1.3	76		1.3	76	0	30	J
2,4-Dinitrotoluene (2,4-DNT	mg/Kg	1.70	1.5	90	48 - 126	1.5	89	1	30	J
4-Nitrophenol	mg/Kg	1.70	1.5	91		1.5	92	1	30	J
Diethyl phthalate	mg/Kg	1.70	1.4	87		1.4	87	0	30	J
Fluorene	mg/Kg	1.70	1.4	86	43 - 125	1.4	85	1	30	J
4-Chlorophenyl Phenyl Eth	mg/Kg	1.70	1.5	89		1.5	89	0	30	J
2-Methyl-4,6-dinitrophenol	mg/Kg	1.70	1.8	105		1.7	102	3	30	J
N-Nitrosodiphenylamine	mg/Kg	1.70	1.2	75		1.3	77	3	30	J
1,2-Diphenylhydrazine	mg/Kg	1.70	1.4	83		1.4	85	2	30	J
4-Bromophenyl Phenyl Eth	mg/Kg	1.70	1.5	88		1.5	89	1	30	J
Hexachlorobenzene	mg/Kg	1.70	1.4	84	45 - 122	1.4	86	2	30	J
Pentachlorophenol	mg/Kg	1.70	1.4	85	25 - 133	1.3	80	6	30	J
Phenanthrene	mg/Kg	1.70	1.4	86		1.5	88	2	30	J
Anthracene	mg/Kg	1.70	1.4	86		1.5	87	1	30	J
Di-n-Butyl Phthalate	mg/Kg	1.70	1.5	91		1.5	91	0	30	J
Fluoranthene	mg/Kg	1.70	1.5	88	50 - 127	1.5	90	2	30	J
Pyrene	mg/Kg	1.70	1.5	92		1.5	91	1	30	J
Butyl benzyl phthalate	mg/Kg	1.70	1.6	98		1.6	97	1	30	J
Benzo[a]anthracene	mg/Kg	1.70	1.4	87		1.4	84	4	30	J
Chrysene	mg/Kg	1.70	1.5	89		1.4	87	2	30	J
bis(2-Ethylhexyl) phthalate	mg/Kg	1.70	1.6	99	51 - 133	1.6	96	3	30	J
Di-n-octyl Phthalate	mg/Kg	1.70	1.6	97		1.6	95	2	30	J
Benzo[b]fluoranthene	mg/Kg	1.70	1.5	93		1.6	94	1	30	J
Benzo[k]fluoranthene	mg/Kg	1.70	1.4	84		1.4	85	1	30	J
Benzo[a]pyrene	mg/Kg	1.70	1.5	92	45 - 129	1.5	92	0	30	J
Indeno(1,2,3-cd)pyrene	mg/Kg	1.70	1.5	93		1.7	103	10	30	J
Dibenzo[a,h]anthracene	mg/Kg	1.70	1.5	88		1.5	88	0	30	J
Benzo[g,h,i]perylene	mg/Kg	1.70	1.4	83		1.4	85	2	30	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSSj/1881 **Analysis Method:** SW-846 8270C
Preparation Method: SW-846 3550B
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Benzidine	mg/Kg	1.70	.26	16		.28	17	6	30	J
3,3`-Dichlorobenzidine	mg/Kg	1.70	.93	56		.99	60	7	30	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
2,4,6-Tribromophenol (S)	mg/L	1.70	1.60	98	39 - 132	1.70	100	2	30	
2-Fluorobiphenyl (S)	mg/L	1.70	1.50	89	44 - 115	1.50	90	1	30	
2-Fluorophenol (S)	mg/L	1.70	1.50	93	35 - 115	1.50	91	2	30	
Nitrobenzene-d5 (S)	mg/L	1.70	1.40	85	37 - 122	1.40	87	2		
Phenol-d6 (S)	mg/L	1.70	1.60	93	33 - 122	1.60	94	1		
p-Terphenyl-d14 (S)	mg/L	1.70	1.60	97	54 - 127	1.60	96	1		

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: MSVj/3264 **Analysis Method:** SW-846 8260B
Preparation Method: SW-846 5035
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Method Blank(4186859)

Parameter	Results	Units	PQL	MDL	Lab
Dichlorodifluoromethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Chloromethane	0.0015 U	mg/Kg	0.0060	0.0015	J
Vinyl Chloride	0.00075 U	mg/Kg	0.0030	0.00075	J
Bromomethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Chloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Trichlorofluoromethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Acrolein (Propenal)	0.010 U	mg/Kg	0.050	0.010	J
1,1-Dichloroethylene	0.00075 U	mg/Kg	0.0030	0.00075	J
Acrylonitrile	0.00075 U	mg/Kg	0.0030	0.00075	J
Methylene Chloride	0.0015 U	mg/Kg	0.0060	0.0015	J
trans-1,2-Dichloroethylene	0.00075 U	mg/Kg	0.0030	0.00075	J
1,1-Dichloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
cis-1,2-Dichloroethylene	0.00075 U	mg/Kg	0.0030	0.00075	J
Chloroform	0.00075 U	mg/Kg	0.0030	0.00075	J
1,2-Dichloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
1,1,1-Trichloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Carbon Tetrachloride	0.00075 U	mg/Kg	0.0030	0.00075	J
Benzene	0.00075 U	mg/Kg	0.0030	0.00075	J
1,2-Dichloropropane	0.00075 U	mg/Kg	0.0030	0.00075	J
Trichloroethene	0.00075 U	mg/Kg	0.0030	0.00075	J
Bromodichloromethane	0.00075 U	mg/Kg	0.0030	0.00075	J
2-Chloroethyl Vinyl Ether	0.00075 U	mg/Kg	0.0030	0.00075	J
cis-1,3-Dichloropropene	0.00075 U	mg/Kg	0.0030	0.00075	J
trans-1,3-Dichloropropylene	0.00075 U	mg/Kg	0.0030	0.00075	J
1,1,2-Trichloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Toluene	0.00075 U	mg/Kg	0.0030	0.00075	J
Dibromochloromethane	0.00075 U	mg/Kg	0.0030	0.00075	J
Tetrachloroethylene (PCE)	0.00075 U	mg/Kg	0.0030	0.00075	J
Chlorobenzene	0.00075 U	mg/Kg	0.0030	0.00075	J
Ethylbenzene	0.00075 U	mg/Kg	0.0030	0.00075	J
Bromoform	0.00075 U	mg/Kg	0.0030	0.00075	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3264 **Analysis Method:** SW-846 8260B
Preparation Method: SW-846 5035
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Results	Units	PQL	MDL	Lab
1,1,2,2-Tetrachloroethane	0.00075 U	mg/Kg	0.0030	0.00075	J
1,3-Dichlorobenzene	0.00075 U	mg/Kg	0.0030	0.00075	J
1,4-Dichlorobenzene	0.00075 U	mg/Kg	0.0030	0.00075	J
1,2-Dichlorobenzene	0.00075 U	mg/Kg	0.0030	0.00075	J
Xylene (Total)	0.0022 U	mg/Kg	0.0090	0.0022	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	52	104	69 - 134	
Bromofluorobenzene (S)	ug/L	50	52	105	79 - 126	
Toluene-d8 (S)	ug/L	50	49	97	72 - 122	

Lab Control Sample (4186860); Lab Control Sample Duplicate (4186861)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dichlorodifluoromethane	mg/Kg	0.02	.02	73		.01	71	3		J
Chloromethane	mg/Kg	0.02	.02	97		.02	94	3		J
Vinyl Chloride	mg/Kg	0.02	.02	86	70 - 130	.02	86	0	20	J
Bromomethane	mg/Kg	0.02	.02	114		.02	108	5		J
Chloroethane	mg/Kg	0.02	.02	89		.02	88	1		J
Trichlorofluoromethane	mg/Kg	0.02	.02	96		.02	89	8		J
1,1-Dichloroethylene	mg/Kg	0.02	.02	91	70 - 130	.02	93	2	20	J
Methylene Chloride	mg/Kg	0.02	.02	101		.02	102	1		J
trans-1,2-Dichloroethylene	mg/Kg	0.02	.02	95		.02	96	1		J
1,1-Dichloroethane	mg/Kg	0.02	.02	99		.02	99	0		J
cis-1,2-Dichloroethylene	mg/Kg	0.02	.02	100	70 - 130	.02	100	0	20	J
Chloroform	mg/Kg	0.02	.02	101	70 - 130	.02	103	2	20	J
1,2-Dichloroethane	mg/Kg	0.02	.02	91		.02	96	5		J
1,1,1-Trichloroethane	mg/Kg	0.02	.02	97		.02	96	1		J
Carbon Tetrachloride	mg/Kg	0.02	.02	100		.02	97	3		J
Benzene	mg/Kg	0.02	.02	101	70 - 130	.02	102	1	20	J
1,2-Dichloropropane	mg/Kg	0.02	.02	98		.02	101	3		J
Trichloroethene	mg/Kg	0.02	.02	94	70 - 130	.02	96	2	20	J
Bromodichloromethane	mg/Kg	0.02	.02	98		.02	101	3		J
cis-1,3-Dichloropropene	mg/Kg	0.02	.02	105		.02	106	1		J
trans-1,3-Dichloropropylene	mg/Kg	0.02	.02	102		.02	104	2		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3264 **Analysis Method:** SW-846 8260B
Preparation Method: SW-846 5035
Associated Lab IDs: J2201355001, J2201355003, J2201355004, J2201355006

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,1,2-Trichloroethane	mg/Kg	0.02	.02	100		.02	101	1		J
Toluene	mg/Kg	0.02	.02	94	70 - 130	.02	95	1	20	J
Dibromochloromethane	mg/Kg	0.02	.02	94		.02	96	2		J
Tetrachloroethylene (PCE)	mg/Kg	0.02	.02	95	70 - 130	.02	95	0	20	J
Chlorobenzene	mg/Kg	0.02	.02	96	70 - 130	.02	100	4	20	J
Ethylbenzene	mg/Kg	0.02	.02	96	70 - 130	.02	97	1	20	J
Bromoform	mg/Kg	0.02	.02	95		.02	97	2		J
1,1,2,2-Tetrachloroethane	mg/Kg	0.02	.02	98		.02	100	2		J
1,3-Dichlorobenzene	mg/Kg	0.02	.02	99	70 - 130	.02	99	0	20	J
1,4-Dichlorobenzene	mg/Kg	0.02	.02	100		.02	98	2		J
1,2-Dichlorobenzene	mg/Kg	0.02	.02	99	70 - 130	.02	100	1	20	J
Xylene (Total)	mg/Kg	0.06	.06	95	70 - 130	.06	96	1	20	J
2-Chloroethyl Vinyl Ether	mg/Kg	0.02	.02	81		.02	83	2		J
Acrolein (Propenal)	mg/Kg	0.10	.35	348		.36	359	3		J
Acrylonitrile	mg/Kg	0.02	.02	100		.02	99	1		J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	51	102	69 - 134	47	94	8		
Bromofluorobenzene (S)	ug/L	50	51	102	79 - 126	50	100	2		
Toluene-d8 (S)	ug/L	50	49	97	72 - 122	49	98	1		

Matrix Spike (4186862); Parent Lab Sample (J2201317001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Benzene	mg/Kg	0.02	.02	75	70 - 130	J
Toluene	mg/Kg	0.02	.02	**56**	70 - 130	J
Ethylbenzene	mg/Kg	0.02	.02	72	70 - 130	J
Xylene (Total)	mg/Kg	0.06	.04	**65**	70 - 130	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	49	98	69 - 134	
Bromofluorobenzene (S)	ug/L	50	52	103	79 - 126	
Toluene-d8 (S)	ug/L	50	51	102	72 - 122	

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FINAL

Workorder: 243 Comfort Road (J2201355)

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Results

QC Batch: MSVj/3267
Preparation Method: SW-846 5030B
Associated Lab IDs: J2201355002, J2201355005, J2201355007
Analysis Method: SW-846 8260B

Method Blank(4187345)

Parameter	Results	Units	PQL	MDL	Lab
Dichlorodifluoromethane	0.50 U	ug/L	2.0	0.50	J
Chloromethane	0.25 U	ug/L	1.0	0.25	J
Vinyl Chloride	0.25 U	ug/L	1.0	0.25	J
Bromomethane	0.50 U	ug/L	2.0	0.50	J
Chloroethane	0.50 U	ug/L	2.0	0.50	J
Trichlorofluoromethane	0.50 U	ug/L	2.0	0.50	J
Acrolein (Propenal)	1.5 U	ug/L	5.0	1.5	J
1,1-Dichloroethylene	0.50 U	ug/L	2.0	0.50	J
Acrylonitrile	0.50 U	ug/L	2.0	0.50	J
Methylene Chloride	1.2 U	ug/L	5.0	1.2	J
trans-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	J
Methyl tert-butyl Ether (MTBE)	0.25 U	ug/L	1.0	0.25	J
1,1-Dichloroethane	0.25 U	ug/L	1.0	0.25	J
cis-1,2-Dichloroethylene	0.50 U	ug/L	2.0	0.50	J
Chloroform	0.50 U	ug/L	2.0	0.50	J
1,2-Dichloroethane	0.25 U	ug/L	1.0	0.25	J
1,1,1-Trichloroethane	0.50 U	ug/L	2.0	0.50	J
Carbon Tetrachloride	0.25 U	ug/L	1.0	0.25	J
Benzene	0.25 U	ug/L	1.0	0.25	J
1,2-Dichloropropane	0.25 U	ug/L	1.0	0.25	J
Trichloroethene	0.25 U	ug/L	1.0	0.25	J
Bromodichloromethane	0.50 U	ug/L	2.0	0.50	J
2-Chloroethyl Vinyl Ether	0.50 U	ug/L	2.0	0.50	J
cis-1,3-Dichloropropene	0.20 U	ug/L	1.0	0.20	J
trans-1,3-Dichloropropylene	0.20 U	ug/L	1.0	0.20	J
1,1,2-Trichloroethane	0.25 U	ug/L	1.0	0.25	J
Toluene	0.25 U	ug/L	1.0	0.25	J
Dibromochloromethane	0.20 U	ug/L	1.0	0.20	J
Tetrachloroethylene (PCE)	0.25 U	ug/L	1.0	0.25	J
Chlorobenzene	0.50 U	ug/L	2.0	0.50	J
Ethylbenzene	0.25 U	ug/L	1.0	0.25	J

Certificate of Analysis

NELAP Accredited E82574

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL 32216
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (904) 363-9350
Fax: (904) 363-9354

FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3267
Preparation Method: SW-846 5030B
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8260B

Parameter	Results	Units	PQL	MDL	Lab
Bromoform	0.25 U	ug/L	1.0	0.25	J
1,1,2,2-Tetrachloroethane	0.20 U	ug/L	1.0	0.20	J
1,3-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	J
1,4-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	J
1,2-Dichlorobenzene	0.50 U	ug/L	2.0	0.50	J
Xylene (Total)	0.75 U	ug/L	3.0	0.75	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	52	103	70 - 128	
Bromofluorobenzene (S)	ug/L	50	55	111	86 - 123	
Toluene-d8 (S)	ug/L	50	47	95	77 - 119	

Lab Control Sample (4187346); Lab Control Sample Duplicate (4187347)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Dichlorodifluoromethane	ug/L	20	17	83		16	82	1		J
Chloromethane	ug/L	20	21	104		21	106	2		J
Vinyl Chloride	ug/L	20	21	103	70 - 130	21	104	1	20	J
Bromomethane	ug/L	20	23	115		25	125	8		J
Chloroethane	ug/L	20	22	110		21	106	4		J
Trichlorofluoromethane	ug/L	20	22	109		22	108	1		J
Acrolein (Propenal)	ug/L	100	410	412		420	418	1		J
1,1-Dichloroethylene	ug/L	20	22	110	70 - 130	22	110	0	20	J
Acrylonitrile	ug/L	20	22	111		24	122	9		J
Methylene Chloride	ug/L	20	23	115		24	119	3		J
trans-1,2-Dichloroethylene	ug/L	20	23	113		23	114	1		J
Methyl tert-butyl Ether (MT	ug/L	20	23	115	70 - 130	25	123	7	20	J
1,1-Dichloroethane	ug/L	20	23	113		23	116	3		J
cis-1,2-Dichloroethylene	ug/L	20	23	114	70 - 130	24	118	3	20	J
Chloroform	ug/L	20	23	116	70 - 130	24	119	3	20	J
1,2-Dichloroethane	ug/L	20	22	109		23	113	4		J
1,1,1-Trichloroethane	ug/L	20	23	114		23	113	1		J
Carbon Tetrachloride	ug/L	20	23	114		23	113	1		J
Benzene	ug/L	20	23	115	70 - 130	23	117	2	20	J
1,2-Dichloropropane	ug/L	20	23	116		24	118	2		J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3267
Preparation Method: SW-846 5030B
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8260B

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Trichloroethene	ug/L	20	22	112	70 - 130	23	114	2	20	J
Bromodichloromethane	ug/L	20	23	115		24	119	3		J
2-Chloroethyl Vinyl Ether	ug/L	20	17	85		19	93	9		J
cis-1,3-Dichloropropene	ug/L	20	23	115		25	124	8		J
trans-1,3-Dichloropropylene	ug/L	20	23	117		25	124	6		J
1,1,2-Trichloroethane	ug/L	20	22	111		23	115	4		J
Toluene	ug/L	20	23	114	70 - 130	22	111	3	20	J
Dibromochloromethane	ug/L	20	23	115		23	114	1		J
Tetrachloroethylene (PCE)	ug/L	20	22	112	70 - 130	22	110	2	20	J
Chlorobenzene	ug/L	20	22	111	70 - 130	22	111	0	20	J
Ethylbenzene	ug/L	20	23	115	70 - 130	23	115	0	20	J
Bromoform	ug/L	20	21	107		22	112	5		J
1,1,2,2-Tetrachloroethane	ug/L	20	23	115		23	116	1		J
1,3-Dichlorobenzene	ug/L	20	22	113	70 - 130	23	113	0	20	J
1,4-Dichlorobenzene	ug/L	20	22	110		22	112	2		J
1,2-Dichlorobenzene	ug/L	20	22	111	70 - 130	23	113	2	20	J
Xylene (Total)	ug/L	60	68	113	70 - 130	68	113	0	20	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	48	95	70 - 128	50	99	4		
Bromofluorobenzene (S)	ug/L	50	51	102	86 - 123	52	103	1		
Toluene-d8 (S)	ug/L	50	50	99	77 - 119	49	98	1		

Matrix Spike (4187348); Parent Lab Sample (J2201355002)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Dichlorodifluoromethane	ug/L	20	17	85		J
Chloromethane	ug/L	20	20	101		J
Vinyl Chloride	ug/L	20	20	98	70 - 130	J
Bromomethane	ug/L	20	15	74		J
Chloroethane	ug/L	20	22	110		J
Trichlorofluoromethane	ug/L	20	21	106		J
Acrolein (Propenal)	ug/L	100	380	376		J
1,1-Dichloroethylene	ug/L	20	23	113	70 - 130	J

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3267
Preparation Method: SW-846 5030B
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8260B

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Acrylonitrile	ug/L	20	23	115		J
Methylene Chloride	ug/L	20	23	113		J
trans-1,2-Dichloroethylene	ug/L	20	23	114		J
Methyl tert-butyl Ether (MTBE)	ug/L	20	24	120	70 - 130	J
1,1-Dichloroethane	ug/L	20	23	116		J
cis-1,2-Dichloroethylene	ug/L	20	22	112	70 - 130	J
Chloroform	ug/L	20	24	118	70 - 130	J
1,2-Dichloroethane	ug/L	20	22	112		J
1,1,1-Trichloroethane	ug/L	20	23	113		J
Carbon Tetrachloride	ug/L	20	24	119		J
Benzene	ug/L	20	23	115	70 - 130	J
1,2-Dichloropropane	ug/L	20	24	118		J
Trichloroethene	ug/L	20	22	108	70 - 130	J
Bromodichloromethane	ug/L	20	24	120		J
2-Chloroethyl Vinyl Ether	ug/L	20	11	56		J
cis-1,3-Dichloropropene	ug/L	20	23	117		J
trans-1,3-Dichloropropylene	ug/L	20	23	114		J
1,1,2-Trichloroethane	ug/L	20	23	114		J
Toluene	ug/L	20	22	111	70 - 130	J
Dibromochloromethane	ug/L	20	23	117		J
Tetrachloroethylene (PCE)	ug/L	20	22	110	70 - 130	J
Chlorobenzene	ug/L	20	22	112	70 - 130	J
Ethylbenzene	ug/L	20	22	111	70 - 130	J
Bromoform	ug/L	20	22	108		J
1,1,2,2-Tetrachloroethane	ug/L	20	23	114		J
1,3-Dichlorobenzene	ug/L	20	22	109	70 - 130	J
1,4-Dichlorobenzene	ug/L	20	21	107		J
1,2-Dichlorobenzene	ug/L	20	22	109	70 - 130	J
Xylene (Total)	ug/L	60	67	112	70 - 130	J

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
1,2-Dichloroethane-d4 (S)	ug/L	50	51	102	70 - 128	
Bromofluorobenzene (S)	ug/L	50	51	101	86 - 123	

Certificate of Analysis

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Batch: MSVj/3267
Preparation Method: SW-846 5030B
Associated Lab IDs: J2201355002, J2201355005, J2201355007

Analysis Method: SW-846 8260B

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Toluene-d8 (S)	ug/L	50	50	99	77 - 119	

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
CVAj/1389 - SW-846 7470A			
J2201355002	TW-1	DGMj/2777	SW-846 7470A
J2201355005	TW-2	DGMj/2777	SW-846 7470A
J2201355007	TW-3	DGMj/2777	SW-846 7470A
CVAj/1394 - SW-846 7471A			
J2201355001	S1	DGMj/2804	SW-846 7471A
J2201355003	SB-2	DGMj/2804	SW-846 7471A
J2201355004	SB-1	DGMj/2804	SW-846 7471A
J2201355006	S2	DGMj/2804	SW-846 7471A
GCSj/2708 - FL-PRO			
J2201355002	TW-1	EXTj/3352	FL-PRO
J2201355005	TW-2	EXTj/3352	FL-PRO
J2201355007	TW-3	EXTj/3352	FL-PRO
GCSj/2709 - FL-PRO			
J2201355001	S1	EXTj/3356	FL-PRO
J2201355003	SB-2	EXTj/3356	FL-PRO
J2201355004	SB-1	EXTj/3356	FL-PRO
J2201355006	S2	EXTj/3356	FL-PRO
GCSj/2732 - SW-846 8082A			
J2201355001	S1	EXTj/3362	SW-846 3550B
J2201355003	SB-2	EXTj/3362	SW-846 3550B
J2201355004	SB-1	EXTj/3362	SW-846 3550B
J2201355006	S2	EXTj/3362	SW-846 3550B
GCSj/2734 - SW-846 8082A			
J2201355002	TW-1	EXTj/3357	SW-846 3510C
J2201355005	TW-2	EXTj/3357	SW-846 3510C
J2201355007	TW-3	EXTj/3357	SW-846 3510C
ICMj/1743 - SW-846 6020			
J2201355002	TW-1	DGMj/2772	SW-846 3010A
J2201355005	TW-2	DGMj/2772	SW-846 3010A
J2201355007	TW-3	DGMj/2772	SW-846 3010A

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FINAL

Workorder: 243 Comfort Road (J2201355)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
ICPj/1702 - SW-846 6010			
J2201355001	S1	DGMj/2780	SW-846 3050B
J2201355003	SB-2	DGMj/2780	SW-846 3050B
J2201355004	SB-1	DGMj/2780	SW-846 3050B
J2201355006	S2	DGMj/2780	SW-846 3050B
MSSj/1857 - SW-846 8270C			
J2201355002	TW-1	EXTj/3328	SW-846 3510C
J2201355005	TW-2	EXTj/3328	SW-846 3510C
J2201355007	TW-3	EXTj/3328	SW-846 3510C
MSSj/1881 - SW-846 8270C			
J2201355001	S1	EXTj/3380	SW-846 3550B
J2201355003	SB-2	EXTj/3380	SW-846 3550B
J2201355004	SB-1	EXTj/3380	SW-846 3550B
J2201355006	S2	EXTj/3380	SW-846 3550B
MSVj/3264 - SW-846 8260B			
J2201355001	S1	MSVj/3263	SW-846 5035
J2201355003	SB-2	MSVj/3263	SW-846 5035
J2201355004	SB-1	MSVj/3263	SW-846 5035
J2201355006	S2	MSVj/3263	SW-846 5035
MSVj/3267 - SW-846 8260B			
J2201355002	TW-1	MSVj/3266	SW-846 5030B
J2201355005	TW-2	MSVj/3266	SW-846 5030B
J2201355007	TW-3	MSVj/3266	SW-846 5030B
WCAj/4874 - SM 2540G			
J2201355001	S1		
J2201355003	SB-2		
J2201355004	SB-1		
J2201355006	S2		

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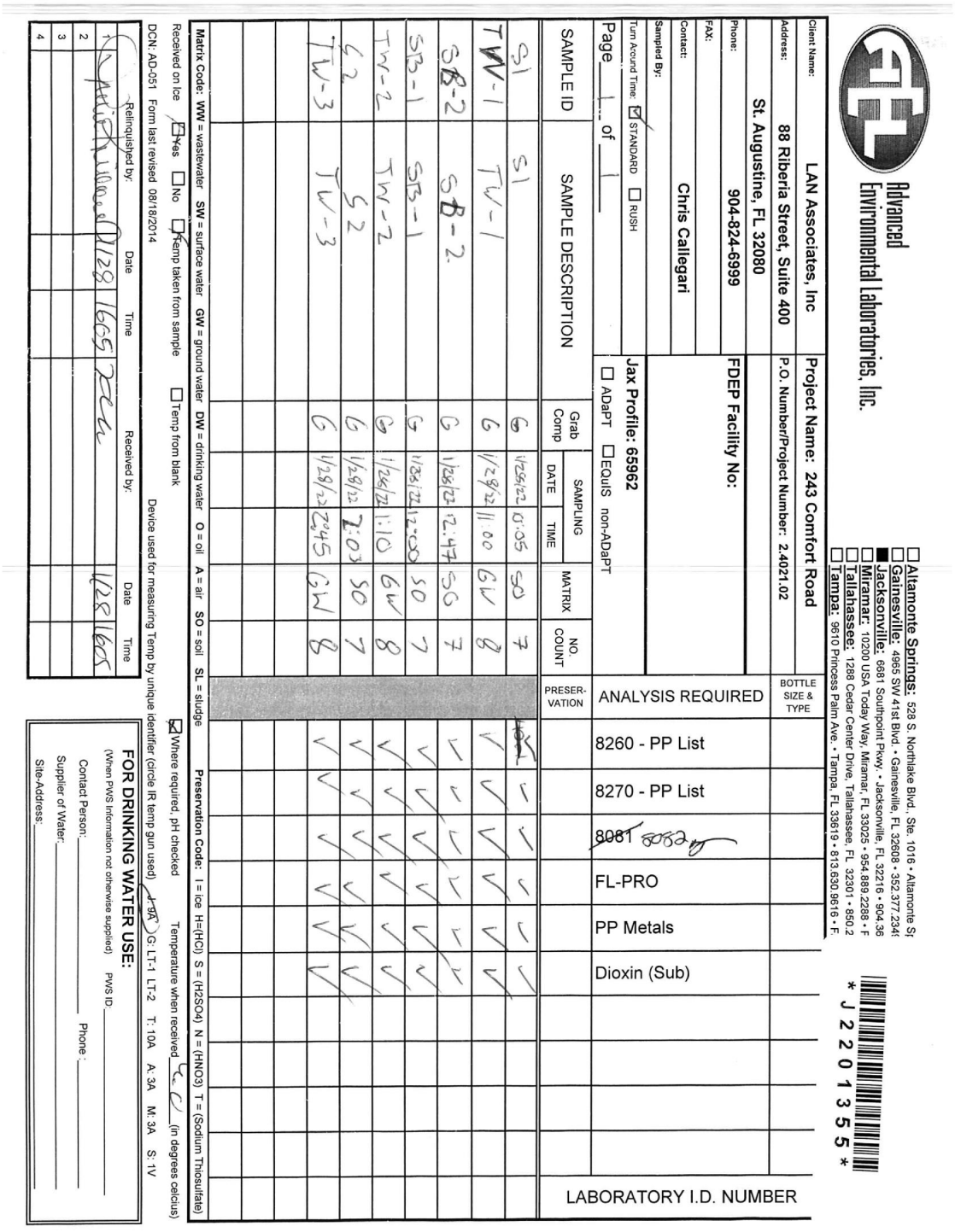
FINAL

Workorder: 243 Comfort Road (J2201355)



Advanced Environmental Laboratories, Inc.

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☐ Miramar: 10200 USA Today Way Miramar, FL 33025 • 954.889.2288 • F
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.2
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • F

* J 2 2 0 1 3 5 5 *

Client Name: LAN Associates, Inc
Address: 88 Riberia Street, Suite 400
St. Augustine, FL 32080
Phone: 904-824-6999
FAX:
Contact: Chris Callegari
Sampled By:
Turn Around Time: ☑ STANDARD ☐ RUSH
Page 1 of 1

Project Name: 243 Comfort Road
P.O. Number/Project Number: 2.4021.02
FDEP Facility No:
Jax Profile: 65962
☐ ADaPT ☐ EQuIS non-ADaPT

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESER-VATION	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
S1	S1	G	1/25/22	0:05	SO	7		8260 - PP List		
TW-1	TW-1	G	1/28/22	11:00	GW	8		8270 - PP List		
SB-2	SB-2	G	1/28/22	12:47	SO	7		~~8081~~ 8082		
SB3-1	SB3-1	G	1/28/22	12:30	SO	7		FL-PRO		
TW-2	TW-2	G	1/28/22	1:10	GW	8		PP Metals		
S2	S2	G	1/29/22	7:03	SO	7		Dioxin (Sub)		
TW-3	TW-3	G	1/28/22	2:45	GW	8				

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)
☑ Where required, pH checked
Temperature when received: 4.6 (in degrees celcius)
Received on Ice ☐ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank
Device used for measuring Temp by unique identifier (circle IR temp gun used) J-9A JG LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V
DCN: AD-051 Form last revised 08/18/2014

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	1/28	1665	[signature]	1/28	1665
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Certificate of Analysis

NELAP Accredited E82574

Advanced Environmental Laboratories, Inc.

Work Order: J2201355
Client: LAN Associates
Project ID: 243 Comfort Road

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation:	All holding times were met.
Analysis:	All holding times were met.

III. Method

Analysis:	FL-PRO
Preparation:	FL-PRO

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration:	All acceptance criteria were met.
Blanks:	All acceptance criteria were met.
Surrogates:	The upper control criterion was exceeded for the following surrogate in J2201345004: o-Terphenyl-OTP. The error associated with an elevated recovery equates to a high bias. The lower control criterion was exceeded for the following surrogate in samples J2201355002: o-Terphenyl-OTP. The quality of the sample data is not significantly affected, as surrogate recoveries in the Method Blank (MB) and Laboratory Control Sample (LCS) were within acceptance criteria. The surrogate outlier is flagged accordingly. No further corrective action was required.
Spikes	All acceptance criteria were met.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: J2201355
Client: LAN Associates
Project ID: 243 Comfort Road

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: FL-PRO

Preparation: FL-PRO

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The control criteria for the following surrogate(s) in J2201404001 and J2201404004 are not applicable: o-Terphenyl-OTP and Nonatricontane-C39. The analysis of the sample(s) required a dilution, which results in an undetected surrogate concentration. The surrogates were qualified as being diluted out.

The upper control criterion was exceeded for the following surrogate in J2201454001 due to matrix interference: Nonatricontane-C39. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected, as surrogate recoveries in the Method Blank (MB) and Laboratory Control Sample (LCS) were within acceptance criteria. The surrogate outlier is flagged accordingly. No further corrective action was required.

Spikes The Matrix Spike (MS) recovery and the Matrix Spike Duplicate (MSD) relative percent difference (RPD) of Total Petroleum Hydrocarbons (TPH) for J2201355003 were outside control criteria due to matrix interference. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The outlier is flagged accordingly. No further corrective action was required.

Internal Standard: All acceptance criteria were met.

Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: J2201355
Client: LAN Associates
Project ID: 243 Comfort Road

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8270C

Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: All acceptance criteria were met.

Surrogates: The control criteria for surrogates: 2-Fluorophenol, Phenol-d6, Nitrobenzene-d5, 2 -Fluorobiphenyl, 2,4,6-Tribromophenol and p-Terphenyl-d14 in T2201821 and 2-Fluorophenol and Phenol-d6 in J2201355005 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

Spikes All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: J2201355
Client: LAN Associates
Project ID: 243 Comfort Road

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8082A

Preparation: SW-846 3510C

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: The upper control criterion was exceeded for the following analytes in the closing Continuing Calibration Verification (CCV): A1016 and A1260. The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Blanks: All acceptance criteria were met.

Surrogates: The control criteria for Decachlorobiphaneyl and Tertachloro-m-xylene in J2201355007 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

Spikes All acceptance criteria were met.

Internal Standard: All acceptance criteria were met.

Samples: All acceptance criteria were met.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

Advanced Environmental Laboratories, Inc.

Work Order: J2201355
Client: LAN Associates
Project ID: 243 Comfort Road

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5035

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration: All acceptance criteria were met.

Blanks: Method Blank 4186859MB contained a low level of Acetone above the Method Detection Limit (MDL). The associated samples did not contain the analyte in question above the Method Detection Limit (MDL); therefore, the presence of Acetone in the MB had no adverse effects on the data.

Surrogates: All acceptance criteria were met.

Spikes The matrix spike (MS) recoveries of Toluene, Xylene-mp. Xylene-o, and Xylene (Total) for J2201317001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

Internal Standard: The internal standard recoveries of sample J2201355004 exceeded the lower control criteria. Low recovery equates to a high bias in the sample. Since no target analytes were detected in the client sample, the data quality is not affected. No further corrective action is required.

Samples: Samples J2201253001, -002 and -003 were analyzed at the lowest possible dilution due to a non-water miscible sample matrix that required mid-level Methanol extraction.

Other: All acceptance criteria were met.

Serial Dilution: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

February 11, 2022

Mr. Paul Gunsaulies
Advanced Environmental Laboratories, Incorporated
6681 Southpoint Parkway
Jacksonville, Florida 32216

Re: Dioxin Subcontract - P Gunsaulies
Work Order: 19351
SDG: J2201355

Dear Mr. Gunsaulies:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 01, 2022. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynde Larkins
Project Manager

Purchase Order: J-PO-15802
Chain of Custody: 93250-HBN 77026
Enclosures

Chain of Custody

CFA WO #19351

Document: 93250 - HBN 77026

Results Requested By: Standard ~~2/7/2022~~

Report To	Subcontract To
Advanced Environmental Laboratories, Inc 6681 Southpoint Pkwy Jacksonville, FL 32216 Phone (904) 363-9350 Fax (904) 363-9354	Cape Fear

J-Po-15802

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: 4C	Requested Analysis: SW 8290	LAB USE ONLY
1	S1	01/28/2022 10:05	J2201355001	Soil	1	X	
2	TW-1	01/28/2022 11:00	J2201355002	Water	1	X	
3	SB-2	01/28/2022 12:47	J2201355003	Soil	1	X	
4	SB-1	01/28/2022 12:00	J2201355004	Soil	1	X	
5	TW-2	01/28/2022 13:10	J2201355005	Water	1	X	
6	S2	01/28/2022 14:03	J2201355006	Soil	1	X	
7	TW-3	01/28/2022 14:45	J2201355007	Water	1	X	

Report

- ☐ Standard (Results Only)
- ☐ Standard with Batch QC
- ☐ CLP
- ☐ Other _____

Electronic Data Deliverables

- ☐ Stage 2A
- ☐ Stage 2B
- ☐ Stage 3
- ☐ Other _____

Comments

J2201355 243 Comfort Road Paul Gunsaulies PGunsaulies@aellab.com

temp.= 1.9°C

Chain of Custody

Document: 93250 - HBN 77026

Preservative	Transfers	Released By	Date/Time	Received By	Date/Time
4C = 4 degrees C	1	[signature]	1/31/22 1200	Cynde Larkin	01Feb22/1055
	2				
	3				
	4				
	5				

WO#19351

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

Client: AELI	Work Order: 19351
Shipping Company: FedEx	Date/Time Received: 01Feb22 1055

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		✓	
Samples < 2x background?		✓	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			✓

Air Witness: _____

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			✓	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	✓			
4	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: ice bags loose ice blue ice dry ice none other (describe) Temperature Blank present: Yes (No) 2.0° − 0.1 = 1.9°C
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: Minimal visible solids (<1%)
5	Samples requiring chemical preservation at proper pH?		✓		Sample IDs, containers affected and pH observed: pH=7 on all If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	✓			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	✓			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	✓			List type and number of containers / Sample IDs, containers affected: 1-1L WMAG bottle per water sample (3 total) 1-8 oz. clear glass soil jar per soil sample (4 total)
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

Checklist performed by: Initials: _____ Date: 01Feb22

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
Advanced Environmental Laboratories, Incorporated (AELI)
SDG J2201355
Work Order 19351

Method/Analysis Information

Product:	**TCDD only by SW846 Method 8290A in Liquids, TCDD only by SW846 Method 8290A in Solids**
Analytical Method:	SW846 8290A
Extraction Method:	SW846 3520C, SW846 3540C
Analytical Batch Number:	49036, 49030
Clean Up Batch Number:	49032, 49028
Extraction Batch Number:	49031, 49027

Sample Analysis

Samples were received at 1.9°C. The following samples were analyzed using the analytical protocol as established in SW846 8290A:

Sample ID	Client ID
12031186	Method Blank (MB)
12031187	Laboratory Control Sample (LCS)
12031188	Laboratory Control Sample Duplicate (LCSD)
12031189	Method Blank (MB)
12031190	Laboratory Control Sample (LCS)
12031191	Laboratory Control Sample Duplicate (LCSD)
19351001	S1
19351002	TW-1
19351003	SB-2
19351004	SB-1
19351005	TW-2
19351006	S2
19351007	TW-3

Samples 19351 001, 003, 004 and 006 in this SDG were analyzed on a "dry weight" basis.
Samples 19351 002, 005 and 007 in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this

narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature
Samples were received within temperature requirements.

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the

AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

Sample Preparation
No difficulties were encountered during sample preparation.

System Configuration
This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC
3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report
for

AELI001 Advanced Environmental Laboratories, Incorporated

Client SDG: J2201355 CFA Work Order: 19351

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit.

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature:  **Name: Erin Suhrie**

Date: 11 FEB 2022 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351001**	**Date Collected:**	**01/28/2022 10:05**	**Matrix:**	**SOIL**
Client Sample:	**8290 Soil**	**Date Received:**	**02/01/2022 10:55**	**%Moisture:**	**47.5**
Client ID:	**S1**			**Prep Basis:**	**Dry Weight**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 06:00**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-4**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**19.19 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	J	0.274	pg/g	0.218	0.993

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		194	199	pg/g	97.7	(40%-135%)

Comments:
J Value is estimated

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351002**	**Date Collected:**	**01/28/2022 11:00**	**Matrix:**	**WATER**
Client Sample:	**8290 Water**	**Date Received:**	**02/01/2022 10:55**		
Client ID:	**TW-1**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/10/2022 23:13**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a-10**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**927.2 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.00E-09		mg/L	2.00E-09	1.08E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.93E-06	2.16E-06	mg/L	89.6	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351003**	**Date Collected:**	**01/28/2022 12:47**	**Matrix:**	**SOIL**
Client Sample:	**8290 Soil**	**Date Received:**	**02/01/2022 10:55**	**%Moisture:**	**14.3**
Client ID:	**SB-2**			**Prep Basis:**	**Dry Weight**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 06:50**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-5**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**11.7 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.283	pg/g	0.283	0.998

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		186	200	pg/g	93.4	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351004**	**Date Collected:**	**01/28/2022 12:00**	**Matrix:**	**SOIL**
Client Sample:	**8290 Soil**	**Date Received:**	**02/01/2022 10:55**	**%Moisture:**	**18**
Client ID:	**SB-1**			**Prep Basis:**	**Dry Weight**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 07:40**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-6**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**12.29 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.351	pg/g	0.351	0.992

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		168	198	pg/g	84.5	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351005**	**Date Collected:**	**01/28/2022 13:10**	**Matrix:**	**WATER**
Client Sample:	**8290 Water**	**Date Received:**	**02/01/2022 10:55**		
Client ID:	**TW-2**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 00:03**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a-11**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**928.3 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.74E-09		mg/L	2.74E-09	1.08E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.84E-06	2.15E-06	mg/L	85.6	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351006**	**Date Collected:**	**01/28/2022 14:03**	**Matrix:**	**SOIL**
Client Sample:	**8290 Soil**	**Date Received:**	**02/01/2022 10:55**	**%Moisture:**	**24.6**
Client ID:	**S2**			**Prep Basis:**	**Dry Weight**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 08:30**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-7**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**13.34 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		4.50	pg/g	0.571	0.994

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		174	199	pg/g	87.6	(40%-135%)

Comments:

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**19351007**	**Date Collected:**	**01/28/2022 14:45**	**Matrix:**	**WATER**
Client Sample:	**8290 Water**	**Date Received:**	**02/01/2022 10:55**		
Client ID:	**TW-3**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 00:53**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a-12**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**925.8 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.53E-09		mg/L	2.53E-09	1.08E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.59E-06	2.16E-06	mg/L	73.6	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: J2201355

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12031190	LCS for batch 49031	13C-2,3,7,8-TCDD		82.7	(40%-135%)
12031191	LCSD for batch 49031	13C-2,3,7,8-TCDD		86.4	(40%-135%)
12031189	MB for batch 49031	13C-2,3,7,8-TCDD		84.0	(40%-135%)
19351002	TW-1	13C-2,3,7,8-TCDD		89.6	(40%-135%)
19351005	TW-2	13C-2,3,7,8-TCDD		85.6	(40%-135%)
19351007	TW-3	13C-2,3,7,8-TCDD		73.6	(40%-135%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: J2201355

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12031187	LCS for batch 49027	13C-2,3,7,8-TCDD		85.0	(40%-135%)
12031188	LCSD for batch 49027	13C-2,3,7,8-TCDD		89.7	(40%-135%)
12031186	MB for batch 49027	13C-2,3,7,8-TCDD		82.8	(40%-135%)
19351001	S1	13C-2,3,7,8-TCDD		97.7	(40%-135%)
19351003	SB-2	13C-2,3,7,8-TCDD		93.4	(40%-135%)
19351004	SB-1	13C-2,3,7,8-TCDD		84.5	(40%-135%)
19351006	S2	13C-2,3,7,8-TCDD		87.6	(40%-135%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: J2201355 **Sample Type:** Laboratory Control Sample

Client ID: LCS for batch 49027 **Matrix:** SOIL

Lab Sample ID: 12031187

Instrument: HRP763 **Analysis Date:** 02/11/2022 03:31 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 49027

Batch ID: 49030

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	20.0	19.4	97.2	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: J2201355 **Sample Type:** Laboratory Control Sample Duplicate

Client ID: LCSD for batch 49027 **Matrix:** SOIL

Lab Sample ID: 12031188

Instrument: HRP763 **Analysis Date:** 02/11/2022 04:20 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 49027

Batch ID: 49030

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	20.0	18.9	94.7	70-130	2.60	0-20

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: J2201355 **Sample Type:** Laboratory Control Sample

Client ID: LCS for batch 49031 **Matrix:** WATER

Lab Sample ID: 12031190

Instrument: HRP763 **Analysis Date:** 02/09/2022 15:17 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 49031

Batch ID: 49036

CAS No.		Parmname	Amount Added mg/L	Spike Conc. mg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	2.00E-07	1.84E-07	92	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: J2201355 **Sample Type:** Laboratory Control Sample Duplicate

Client ID: LCSD for batch 49031 **Matrix:** WATER

Lab Sample ID: 12031191

Instrument: HRP763 **Analysis Date:** 02/09/2022 16:07 **Dilution:** 1

Analyst: CLP **Prep Batch ID:** 49031

Batch ID: 49036

CAS No.		Parmname	Amount Added mg/L	Spike Conc. mg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	2.00E-07	1.81E-07	90.5	70-130	1.63	0-20

Method Blank Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Matrix:**	**SOIL**
Client ID:	**MB for batch 49027**	**Instrument ID:**	**HRP763**	**Data File:**	**b10feb22a_2-3**
Lab Sample ID:	**12031186**	**Prep Date:**	**03-FEB-22**	**Analyzed:**	**02/11/22 05:10**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 49027	12031187	b10feb22a_2-1	02/11/22	0331
02	LCSD for batch 49027	12031188	b10feb22a_2-2	02/11/22	0420
03	S1	19351001	b10feb22a_2-4	02/11/22	0600
04	SB-2	19351003	b10feb22a_2-5	02/11/22	0650
05	SB-1	19351004	b10feb22a_2-6	02/11/22	0740
06	S2	19351006	b10feb22a_2-7	02/11/22	0830

Method Blank Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 49031**	**Instrument ID:**	**HRP763**	**Data File:**	**b09feb22a-4**
Lab Sample ID:	**12031189**	**Prep Date:**	**03-FEB-22**	**Analyzed:**	**02/09/22 16:57**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 49031	12031190	b09feb22a-2	02/09/22	1517
02	LCSD for batch 49031	12031191	b09feb22a-3	02/09/22	1607
03	TW-1	19351002	b10feb22a-10	02/10/22	2313
04	TW-2	19351005	b10feb22a-11	02/11/22	0003
05	TW-3	19351007	b10feb22a-12	02/11/22	0053

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031186**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 49027**				
Client ID:	**MB for batch 49027**			**Prep Basis:**	**As Received**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 05:10**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-3**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.197	pg/g	0.197	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		166	200	pg/g	82.8	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031187**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 49027**				
Client ID:	**LCS for batch 49027**			**Prep Basis:**	**As Received**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 03:31**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-1**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		19.4	pg/g	0.193	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		170	200	pg/g	85.0	(40%-135%)

Comments:

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031188**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 49027**				
Client ID:	**LCSD for batch 49027**			**Prep Basis:**	**As Received**
Batch ID:	**49030**	**Method:**	**SW846 8290A**		
Run Date:	**02/11/2022 04:20**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b10feb22a_2-2**			**Dilution:**	**1**
Prep Batch:	**49027**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		18.9	pg/g	0.179	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		179	200	pg/g	89.7	(40%-135%)

Comments:

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031189**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 49031**				
Client ID:	**MB for batch 49031**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/09/2022 16:57**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b09feb22a-4**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.42E-09		mg/L	2.42E-09	1.00E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.68E-06	2.00E-06	mg/L	84.0	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031190**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 49031**				
Client ID:	**LCS for batch 49031**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/09/2022 15:17**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b09feb22a-2**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		1.84E-07		mg/L	3.14E-09	1.00E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.65E-06	2.00E-06	mg/L	82.7	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**J2201355**	**Client:**	**AELI001**	**Project:**	**AELI00119**
Lab Sample ID:	**12031191**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 49031**				
Client ID:	**LCSD for batch 49031**			**Prep Basis:**	**As Received**
Batch ID:	**49036**	**Method:**	**SW846 8290A**		
Run Date:	**02/09/2022 16:07**	**Analyst:**	**CLP**	**Instrument:**	**HRP763**
Data File:	**b09feb22a-3**			**Dilution:**	**1**
Prep Batch:	**49031**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**03-FEB-22**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	EMPC	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		1.81E-07		mg/L	3.06E-09	1.00E-08

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1.73E-06	2.00E-06	mg/L	86.4	(40%-135%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Additional Phase II Sampling

Soil Laboratory Analytical Report

March 4, 2022

Advanced Environmental Laboratories, Inc
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FINAL

Workorder: 243 Comfort Rd (J2202633)

March 04, 2022

Chris Callegari
LAN Associates
88 Riberia Street, Suite 400
Saint Augustine, FL 32084

RE: Workorder: J2202633 243 Comfort Rd

Dear Chris Callegari:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday February 23, 2022. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Gunsaulies

Paul Gunsaulies
PGunsaulies@aellab.com

Certificate of Analysis

POWERED BY HORIZON v.13.0.0

NELAP Accredited E82574

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
J2202633001	SS-1	SO	SM 2540G	02/22/2022 12:46	02/23/2022 12:50	1
J2202633001	SS-1	SO	SW-846 6010	02/22/2022 12:46	02/23/2022 12:50	7
J2202633001	SS-1	SO	SW-846 7471A	02/22/2022 12:46	02/23/2022 12:50	1
J2202633002	SS-2	SO	SM 2540G	02/22/2022 12:50	02/23/2022 12:50	1
J2202633002	SS-2	SO	SW-846 6010	02/22/2022 12:50	02/23/2022 12:50	7
J2202633002	SS-2	SO	SW-846 7471A	02/22/2022 12:50	02/23/2022 12:50	1
J2202633003	SS-3	SO	SM 2540G	02/22/2022 12:55	02/23/2022 12:50	1
J2202633003	SS-3	SO	SW-846 6010	02/22/2022 12:55	02/23/2022 12:50	7
J2202633003	SS-3	SO	SW-846 7471A	02/22/2022 12:55	02/23/2022 12:50	1
J2202633004	SS-4	SO	SM 2540G	02/22/2022 13:02	02/23/2022 12:50	1
J2202633004	SS-4	SO	SW-846 6010	02/22/2022 13:02	02/23/2022 12:50	7
J2202633004	SS-4	SO	SW-846 7471A	02/22/2022 13:02	02/23/2022 12:50	1
J2202633005	SS-5	SO	SM 2540G	02/22/2022 13:06	02/23/2022 12:50	1
J2202633005	SS-5	SO	SW-846 6010	02/22/2022 13:06	02/23/2022 12:50	7
J2202633005	SS-5	SO	SW-846 7471A	02/22/2022 13:06	02/23/2022 12:50	1
J2202633006	SS-6	SO	SM 2540G	02/22/2022 13:16	02/23/2022 12:50	1
J2202633006	SS-6	SO	SW-846 6010	02/22/2022 13:16	02/23/2022 12:50	7
J2202633006	SS-6	SO	SW-846 7471A	02/22/2022 13:16	02/23/2022 12:50	1

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results Qualifiers

Parameter Qualifiers

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

Lab Qualifiers

J	DOH Certification #E82574 (FL NELAC) AEL-Jacksonville

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633001 **Date Collected:** 02/22/2022 12:46 **Matrix:** Soil
Sample ID: SS-1 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.67 U	mg/Kg	2.7	0.67	1	03/01/2022 08:15	03/02/2022 11:01	J
Barium	**19**	mg/Kg	2.7	0.67	1	03/01/2022 08:15	03/02/2022 11:01	J
Cadmium	**0.75**	mg/Kg	0.27	0.067	1	03/01/2022 08:15	03/02/2022 11:01	J
Chromium	**8.0**	mg/Kg	1.1	0.27	1	03/01/2022 08:15	03/02/2022 11:01	J
Lead	**6.3**	mg/Kg	2.7	0.67	1	03/01/2022 08:15	03/02/2022 11:01	J
Selenium	1.3 U	mg/Kg	5.3	1.3	1	03/01/2022 08:15	03/02/2022 11:01	J
Silver	0.27 U	mg/Kg	1.1	0.27	1	03/01/2022 08:15	03/02/2022 11:01	J
METALS (SW-846 7471A)								
Mercury	**0.067**	mg/Kg	0.0065	0.0016	1	03/01/2022 09:34	03/01/2022 12:16	J
(SM 2540G)								
Percent Moisture	**25**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633002 **Date Collected:** 02/22/2022 12:50 **Matrix:** Soil
Sample ID: SS-2 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.68 U	mg/Kg	2.7	0.68	1	03/01/2022 08:15	03/02/2022 11:06	J
Barium	**17**	mg/Kg	2.7	0.68	1	03/01/2022 08:15	03/02/2022 11:06	J
Cadmium	**0.11 I**	mg/Kg	0.27	0.068	1	03/01/2022 08:15	03/02/2022 11:06	J
Chromium	**8.6**	mg/Kg	1.1	0.27	1	03/01/2022 08:15	03/02/2022 11:06	J
Lead	**9.7**	mg/Kg	2.7	0.68	1	03/01/2022 08:15	03/02/2022 11:06	J
Selenium	1.4 U	mg/Kg	5.4	1.4	1	03/01/2022 08:15	03/02/2022 11:06	J
Silver	0.27 U	mg/Kg	1.1	0.27	1	03/01/2022 08:15	03/02/2022 11:06	J
METALS (SW-846 7471A)								
Mercury	**0.22**	mg/Kg	0.0069	0.0017	1	03/01/2022 09:34	03/01/2022 12:44	J
(SM 2540G)								
Percent Moisture	**28**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633003 **Date Collected:** 02/22/2022 12:55 **Matrix:** Soil
Sample ID: SS-3 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.59 U	mg/Kg	2.4	0.59	1	03/01/2022 08:15	03/02/2022 11:19	J
Barium	**16**	mg/Kg	2.4	0.59	1	03/01/2022 08:15	03/02/2022 11:19	J
Cadmium	**0.074 I**	mg/Kg	0.24	0.059	1	03/01/2022 08:15	03/02/2022 11:19	J
Chromium	**7.1**	mg/Kg	0.95	0.24	1	03/01/2022 08:15	03/02/2022 11:19	J
Lead	**5.5**	mg/Kg	2.4	0.59	1	03/01/2022 08:15	03/02/2022 11:19	J
Selenium	1.2 U	mg/Kg	4.8	1.2	1	03/01/2022 08:15	03/02/2022 11:19	J
Silver	0.24 U	mg/Kg	0.95	0.24	1	03/01/2022 08:15	03/02/2022 11:19	J
METALS (SW-846 7471A)								
Mercury	**0.036**	mg/Kg	0.0058	0.0014	1	03/01/2022 09:34	03/01/2022 12:48	J
(SM 2540G)								
Percent Moisture	**16**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

Analysis Results Comments

Arsenic

J4|Estimated Result

Certificate of Analysis

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633004 **Date Collected:** 02/22/2022 13:02 **Matrix:** Soil
Sample ID: SS-4 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.54 U	mg/Kg	2.2	0.54	1	03/01/2022 08:15	03/02/2022 11:32	J
Barium	**8.6**	mg/Kg	2.2	0.54	1	03/01/2022 08:15	03/02/2022 11:32	J
Cadmium	0.054 U	mg/Kg	0.22	0.054	1	03/01/2022 08:15	03/02/2022 11:32	J
Chromium	**4.9**	mg/Kg	0.86	0.22	1	03/01/2022 08:15	03/02/2022 11:32	J
Lead	**3.3**	mg/Kg	2.2	0.54	1	03/01/2022 08:15	03/02/2022 11:32	J
Selenium	1.1 U	mg/Kg	4.3	1.1	1	03/01/2022 08:15	03/02/2022 11:32	J
Silver	0.22 U	mg/Kg	0.86	0.22	1	03/01/2022 08:15	03/02/2022 11:32	J
METALS (SW-846 7471A)								
Mercury	**0.028**	mg/Kg	0.0053	0.0013	1	03/01/2022 09:34	03/01/2022 12:52	J
(SM 2540G)								
Percent Moisture	**7**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633005 **Date Collected:** 02/22/2022 13:06 **Matrix:** Soil
Sample ID: SS-5 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.57 U	mg/Kg	2.3	0.57	1	03/01/2022 08:15	03/02/2022 11:36	J
Barium	**13**	mg/Kg	2.3	0.57	1	03/01/2022 08:15	03/02/2022 11:36	J
Cadmium	**0.063 I**	mg/Kg	0.23	0.057	1	03/01/2022 08:15	03/02/2022 11:36	J
Chromium	**6.9**	mg/Kg	0.92	0.23	1	03/01/2022 08:15	03/02/2022 11:36	J
Lead	**4.8**	mg/Kg	2.3	0.57	1	03/01/2022 08:15	03/02/2022 11:36	J
Selenium	1.1 U	mg/Kg	4.6	1.1	1	03/01/2022 08:15	03/02/2022 11:36	J
Silver	0.23 U	mg/Kg	0.92	0.23	1	03/01/2022 08:15	03/02/2022 11:36	J
METALS (SW-846 7471A)								
Mercury	**0.034**	mg/Kg	0.0058	0.0014	1	03/01/2022 09:34	03/01/2022 12:56	J
(SM 2540G)								
Percent Moisture	**14**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

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FINAL

Workorder: 243 Comfort Rd (J2202633)

Analytical Results

Lab ID: J2202633006 **Date Collected:** 02/22/2022 13:16 **Matrix:** Soil
Sample ID: SS-6 **Date Received:** 02/23/2022 12:50

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3050B/SW-846 6010)								
Arsenic	0.62 U	mg/Kg	2.5	0.62	1	03/01/2022 08:15	03/02/2022 11:40	J
Barium	**11**	mg/Kg	2.5	0.62	1	03/01/2022 08:15	03/02/2022 11:40	J
Cadmium	0.062 U	mg/Kg	0.25	0.062	1	03/01/2022 08:15	03/02/2022 11:40	J
Chromium	**2.9**	mg/Kg	0.99	0.25	1	03/01/2022 08:15	03/02/2022 11:40	J
Lead	**5.7**	mg/Kg	2.5	0.62	1	03/01/2022 08:15	03/02/2022 11:40	J
Selenium	1.2 U	mg/Kg	5.0	1.2	1	03/01/2022 08:15	03/02/2022 11:40	J
Silver	0.25 U	mg/Kg	0.99	0.25	1	03/01/2022 08:15	03/02/2022 11:40	J
METALS (SW-846 7471A)								
Mercury	**0.023**	mg/Kg	0.0059	0.0015	1	03/01/2022 09:34	03/01/2022 13:00	J
(SM 2540G)								
Percent Moisture	**19**	%	0.001	0.0010	1	02/25/2022 12:00	02/25/2022 12:00	J

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL 32216
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Phone: (904) 363-9350
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FINAL

Workorder: 243 Comfort Rd (J2202633)

QC Results

QC Batch: CVAj/1423 **Analysis Method:** SW-846 7471A
Preparation Method: SW-846 7471A
Associated Lab IDs: J2202633001, J2202633002, J2202633003, J2202633004, J2202633005, J2202633006

Method Blank(4223226)

Parameter	Results	Units	PQL	MDL	Lab
Mercury	0.0012 U	mg/Kg	0.0050	0.0012	J

Lab Control Sample (4223227)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Mercury	mg/Kg	0.10	.1	104	80 - 120	J

Matrix Spike (4223228); Matrix Spike Duplicate (4223229); Parent Lab Sample (J2202633001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	mg/Kg	0.0980	.15	99	80 - 120	.15	99	1	20	J

Certificate of Analysis

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Workorder: 243 Comfort Rd (J2202633)

QC Results

QC Batch: ICPj/1752 **Analysis Method:** SW-846 6010
Preparation Method: SW-846 3050B
Associated Lab IDs: J2202633001, J2202633002, J2202633003, J2202633004, J2202633005, J2202633006

Method Blank(4222043)

Parameter	Results	Units	PQL	MDL	Lab
Silver	0.20 U	mg/Kg	0.80	0.20	J
Arsenic	0.50 U	mg/Kg	2.0	0.50	J
Barium	0.50 U	mg/Kg	2.0	0.50	J
Cadmium	0.050 U	mg/Kg	0.20	0.050	J
Chromium	0.20 U	mg/Kg	0.80	0.20	J
Lead	0.50 U	mg/Kg	2.0	0.50	J
Selenium	1.0 U	mg/Kg	4.0	1.0	J

Lab Control Sample (4222044)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Silver	mg/Kg	4	3.8	96	80 - 120	J
Arsenic	mg/Kg	10	10	100	80 - 120	J
Barium	mg/Kg	10	10	100	80 - 120	J
Cadmium	mg/Kg	1	1	102	80 - 120	J
Chromium	mg/Kg	4	4	100	80 - 120	J
Lead	mg/Kg	10	9.8	98	80 - 120	J
Selenium	mg/Kg	20	20	101	80 - 120	J

Matrix Spike (4222045); Matrix Spike Duplicate (4222046); Parent Lab Sample (J2202633003)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Silver	mg/Kg	4	3.7	92	75 - 125	3.5	90	4	20	J
Arsenic	mg/Kg	10	3.3	**33**	75 - 125	4	**41**	18	20	J
Barium	mg/Kg	10	25	113	75 - 125	26	**129**	6	20	J
Cadmium	mg/Kg	1	1	93	75 - 125	1	95	1	20	J
Chromium	mg/Kg	4	11	115	75 - 125	9.5	91	10	20	J
Lead	mg/Kg	10	13	84	75 - 125	13	86	1	20	J
Selenium	mg/Kg	20	20	100	75 - 125	20	99	2	20	J

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Workorder: 243 Comfort Rd (J2202633)

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
CVAj/1423 - SW-846 7471A			
J2202633001	SS-1	DGMj/2915	SW-846 7471A
J2202633002	SS-2	DGMj/2915	SW-846 7471A
J2202633003	SS-3	DGMj/2915	SW-846 7471A
J2202633004	SS-4	DGMj/2915	SW-846 7471A
J2202633005	SS-5	DGMj/2915	SW-846 7471A
J2202633006	SS-6	DGMj/2915	SW-846 7471A
ICPj/1752 - SW-846 6010			
J2202633001	SS-1	DGMj/2912	SW-846 3050B
J2202633002	SS-2	DGMj/2912	SW-846 3050B
J2202633003	SS-3	DGMj/2912	SW-846 3050B
J2202633004	SS-4	DGMj/2912	SW-846 3050B
J2202633005	SS-5	DGMj/2912	SW-846 3050B
J2202633006	SS-6	DGMj/2912	SW-846 3050B
WCAj/5158 - SM 2540G			
J2202633001	SS-1		
J2202633002	SS-2		
J2202633003	SS-3		
J2202633004	SS-4		
J2202633005	SS-5		
J2202633006	SS-6		

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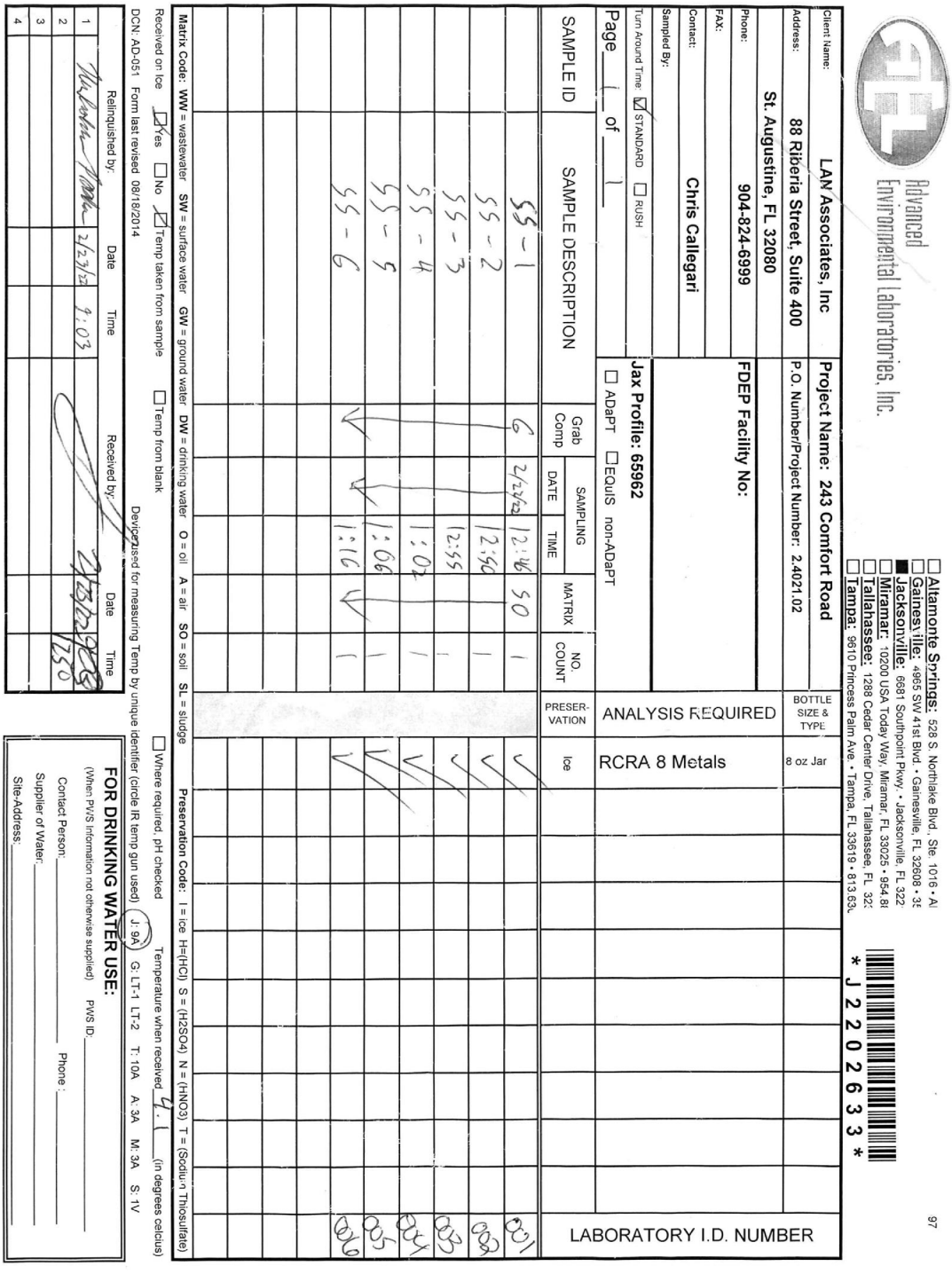
FINAL

Workorder: 243 Comfort Rd (J2202633)



Advanced Environmental Laboratories, Inc

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☐☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.8
☐☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32
☐☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.63

J2202633

97

Client Name: LAN Associates, Inc
Address: 88 Riberia Street, Suite 400
St. Augustine, FL 32080
Phone: 904-824-6999
FAX:
Contact: Chris Callegari
Sampled By:
Turn Around Time: ☑ STANDARD ☐ RUSH
Page 1 of 1

Project Name: 243 Comfort Road
P.O. Number/Project Number: 2.4021.02
FDEP Facility No:
Jax Profile: 65962
☐ ADaPT ☐ EQuIS non-ADaPT

SAMPLE ID	SAMPLE DESCRIPTION	Grab	Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESER-VATION	ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	LABORATORY I.D. NUMBER
	SS-1	G		2/23/22	12:40	SO	1	Ice	RCRA 8 Metals	8 oz Jar	001
	SS-2				12:50		1				002
	SS-3				12:55		1				003
	SS-4				1:02		1				004
	SS-5				1:06		1				005
	SS-6				1:16		1				006

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge ☐ Where required, pH checked
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank
Temperature when received 4.1 (in degrees celcius)
Devices used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V
DCN: AD-051 Form last revised 08/18/2014

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2/23/22	1:03		2/23/22	1250
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site Address:

Certificate of Analysis

NELAP Accredited E82574

Advanced Environmental Laboratories, Inc.

Work Order: J2202633
Client: LAN Associates
Project ID: 243 Comfort Rd

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation:	All holding times were met.
Analysis:	All holding times were met.

III. Method

Analysis:	SW-846 6010
Preparation:	SW-846 3050B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

Calibration:	All acceptance criteria were met.
Blanks:	All acceptance criteria were met.
Surrogates:	All acceptance criteria were met.
Spikes	The matrix spike recovery of Arsenic for J2202633003 was outside control criteria due to the presence of target analytes in the sample. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.
Internal Standard:	All acceptance criteria were met.
Samples:	All acceptance criteria were met.
Other:	All acceptance criteria were met.
Serial Dilution:	All acceptance criteria were met.
Duplicates:	All acceptance criteria were met.

Attachment 3

Soil Borings Summary Table & Soil Boring Logs

Table 4

Additional Phase II Sampling

Soil Borings Summary

Table 4

Boring Log (Extent & Thickness of Ash)

234 Comfort Road
Palatka, FL 32177

Boring ID	Sample ID	Thickness (ft.)	Depth (ft.)	Sample Description/Notes
B12	SS-1	1.5	1.5	
B13	SS-2	2	2	Refusal from wood
TW-3	SB -1	1.5	4	
B15	SS-4	1	3	Insignificant edge of burn pile \\ Refusal because of rocks
B17	SS-3	2	4	
B18	SS-5	1	2.5	Refusal at 3 ft.
B20	SS-6	1	2	

Preliminary Phase II Sampling

Soil Boring Logs

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Boring Log

Boring/Well No. TW-1

Permit No:	**FDEP Facility ID. No.**
lame:	**Borehole Start Date:** 1-28-22 **End Date:** 1-28-22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:00 ☒ AM ☐ PM **End Time:** 9:10 ☒ AM ☐ PM
Geologist's Name: Chris Callegari	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** hand auger
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 8.5ft
Borehole Diameter (in.) 3	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA ~~(list model and check type)~~: ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe) temporary	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	light brown sand		D	
							2	dark organics with sand			
							3	uniform clean beige sand			
							4			M	
							5				
							6	Malcolm, marked gray + brown clay		S	Potentially confirming
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. TW-2

Permit No:	—	**FDEP Facility ID. No.**	—
Name:	TW-2	**Borehole Start Date:**	11/ **End Date:**
Environmental Contractor:	LAN Associates, Inc.	**Borehole Start Time:**	10:50 ☑ AM ☐ PM **End Time:** 11:05 ☑ AM ☐ PM
Geologist's Name:	Chris Callegari	**Environmental Technician's Name:**	Kyle Hayes
Drilling Company:	LAN	**Drilling Method(s):**	HA
Pavement Thickness (in.):	—	**Borehole Depth** (ft.):	8.6
Borehole Diameter (in.)	3	**Apparent Borehole DTW** (in ft. from soil moisture content)	
OVA (list model and check type):	☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)	4.79
Disposition of Drill Cuttings [check method(s)]:	☐ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other		
(describe if other or multiple items are checked):			
Borehole Completion (check one):	☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)		

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	orange and gray sand		D	
							2	gray sand uniform.			
							3				
							4	Gray Sand with silt and Minor clay	SM	M	
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. TW-3

Permit No:	—	**FDEP Facility ID. No.**	—
Name:	TW-3	**Borehole Start Date:**	**End Date:**
Environmental Contractor:	LAN Associates, Inc.	**Borehole Start Time:** 11:35 ☑ AM ☐ PM	**End Time:** 11:50 ☑ AM ☐ PM
Geologist's Name:	Chris Callegari	**Environmental Technician's Name:**	Kyle Hayes
Drilling Company:	LAN	**Drilling Method(s):** HA	
Pavement Thickness (in.):	—	**Borehole Depth** (ft.): 6 ft	
Borehole Diameter (in.)	3"	**Apparent Borehole DTW** (in ft. from soil moisture content)	
OVA (list model and check type): ☐ FID ☐ PID		**Measured Well DTW** (in ft. after water recharges in well)	

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	light beige sand inter mixed with orange silt.			
							2				
							3	Gray Sand intermixed with minor white limestone chunks.			
							4				SB-1 Sample depth 4.0 ft.
							5	black sand grain material with white cast.		M	
							6	dark brown silt with some clay.		S	
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

Additional Phase II Sampling

Soil Boring Logs

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Boring Log

Boring/Well No. B1

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 8:53 ☒ AM ☐ PM **End Time:** 9:26 ☒ AM ☐ PM
Geologist's Name: Nick	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: — Lan	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 5ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	Dirt, Organics		D	
							2	Gray sand well sorted			
							3				
							4	Brown Sand		M/W	
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B2

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:27 ☒ AM ☐ PM **End Time:** 9:35 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): ____	**Borehole Depth** (ft.): ____ 1.5ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Dirt organics (Rock/Gravel Can not Penetrate with hand auger		D	
							2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B3

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:36 ☒ AM ☐ PM **End Time:** 9:38 ☒ AM ☐ PM
Geologist's Name: Nick	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Dirt and organics		D	
							2	Grey Sand Well Sorted			
							3	Brown Sand Well Sorted		M/W	
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B4

Permit No:	**FDEP Facility ID. No.** —
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:40 ☒ AM ☐ PM **End Time:** 9:48 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Dirt w/ Black organic and large Pebbles		D	
							2	Grey Sand well Sorted			
							3	Brown Sand well Sorted			
							4			M/W	
							5				
							6				
							7				
							8				
							9				
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Boring Log

Boring/Well No. B5

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:49 ☒ AM ☐ PM **End Time:** 9:54 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 4.5ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Black dirt organics Grey Sand Well Sorted		D	
							2				
							3	Brown well Sorted Sand ↓			
							4				
							5				
							6				
							7				
							8				
							9				
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							21				

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Boring Log

Boring/Well No. B6

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 9:57 ☒ AM ☐ PM **End Time:** 10:00 ☒ AM ☐ PM
Geologist's Name: Nick	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 3ft
Borehole Diameter (in.) 2.5in	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Black dirt organics Pebbles Refusal roots/Pebbles		D	
							2	Seems like natural Strata			
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
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Boring Log

Boring/Well No. B7

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:08 [X] AM [ ] PM **End Time:** 10:12 [X] AM [ ] PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 4.5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): [ ] FID [ ] PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: [ ] Drum [ ] Spread [X] Backfill [ ] Stockpile [ ] Other

(describe if other or multiple items are checked):

Borehole Completion (check one): [ ] Well [ ] Grout [ ] Bentonite [X] Backfill [ ] Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	heavy organics dirt		M	
							2	Brown dirt		W	
							3			S	
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
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Boring Log

Boring/Well No. B8

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:13 ☒ AM ☐ PM **End Time:** 10:16 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 2.5 ft
Borehole Diameter (in.) 2.5"	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab ~~Soil and Groundwater~~ Samples (list sample number and depth or temporary screen interval)
							1	Tan/Orange Sand Some Organics, fine Grey Course Sand Pebbles re.		D	Notes
							2				Refusal at 2 ft moving over 2 ft Refusal again even after moving
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
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Boring Log

Boring/Well No. B9

Permit No: —	**FDEP Facility ID. No.** —
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:14 ☒ AM ☐ PM **End Time:** 10:22 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 2ft
Borehole Diameter (in.) 2.5"	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	orange tan/orange sand Pebbles ↓		D ↓	
							2				Refusal at same depth as B8 from previous parking lot
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
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Boring Log

Boring/Well No. B10

Permit No: —	**FDEP Facility ID. No.** —
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:24 ☒ AM ☐ PM **End Time:** 10:27 ☐ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 2 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Tan/orange sand fine Pebbles ↓		↓	
							2				Refusal at the same depth as B8 and B9
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
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Boring Log

Boring/Well No. BH

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:28 ☒ AM ☐ PM **End Time:** 10:30 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 1.5ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Black dirt organics Pebbles		D	Lime Rock refuse Previous Parking lot
							2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
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							17				
							18				
							19				
							20				
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Boring Log

Boring/Well No. BH2

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 10:31 ☒ AM ☐ PM **End Time:** 10:55 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 4.5ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Poorly Sorted Sand ten and Soil Pebbles		D	
							2	Darker Soil at 1 foot Fine black Material			Sample depth SS-1 12:40
							3	Corse White Sand		M	
							4	Grey and ten Mottled Clay			
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
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Boring Log

Boring/Well No. B13

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 11:01 ☒ AM ☐ PM **End Time:** 11:11 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 3.5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	orange/tan fine sand		D	
							2	White sand well sorted sugar sand			
							3	Dark material Flakey fine with woodchips		M	Sample SS-2 1-3'
							4				Refusal from wood
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
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Boring Log

Boring/Well No. B14

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 11:13 ☒ AM ☐ PM **End Time:** 11:15 ☒ AM ☐ PM
Geologist's Name: Nick	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 1 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Organic material		D	Refusal from Concrete Rubble / Gravel
							2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
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							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B15

Permit No:	—	FDEP Facility ID. No.	—
Site Name:	Comfort Road	Borehole Start Date: 2/22/22	End Date: 2/22/22
Environmental Contractor:	LAN Associates, Inc.	Borehole Start Time: 11:16 [X] AM [ ] PM	End Time: 11:20 [X] AM [ ] PM
Geologist's Name:	NICK	Environmental Technician's Name:	Kyle Hayes
Drilling Company:	LAN	Drilling Method(s):	HA
Pavement Thickness (in.):	—	Borehole Depth (ft.):	3 ft
Borehole Diameter (in.)	2.5	Apparent Borehole DTW (in ft. from soil moisture content)	
OVA (list model and check type):	[ ] FID [ ] PID	Measured Well DTW (in ft. after water recharges in well)	

Disposition of Drill Cuttings [check method(s)]: [ ] Drum [ ] Spread [X] Backfill [ ] Stockpile [ ] Other

(describe if other or multiple items are checked):

Borehole Completion (check one): [ ] Well [ ] Grout [ ] Bentonite [X] Backfill [ ] Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Tan Sand (Orange) Minor wood chips less than an inch		D	insignificant edge of burn pile
							2				
							3	limestone			Refusal because of Rocks
							4				
							5				
							6				SS-4 1ft
							7				1:02pm
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B16

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 1/22/22 **End Date:** 1/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 11:43 ☒ AM ☐ PM **End Time:** 11:46 ☒ AM ☐ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 2.5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Tan/orange fine sand lime rock base on top brown and black mottled clay ↓ gray		D ↓ M	Lower elevation than B12/B13
							2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B17

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 11:49 ☒ AM ☐ PM **End Time:** 12:00 ☐ AM ☒ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 6 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Tan/Orange Fine Sand		D	
							2	Wood Chips (Significant)			B17mk SS-3 12:55
							3	Brown Silty Sand poorly Sorted			
							4	Grey Sand		M	
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B18

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 12:01 ☐ AM ☒ PM **End Time:** 12:05 ☐ AM ☒ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: ~~[illegible]~~ LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): NA	**Borehole Depth** (ft.): 3 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Dirt and organics		D	
							2	Orange/Brown Sand			
							3	large wood chips [illegible]			Refusal at 3 ft SS-5 1400 2.5"
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B19

Permit No:	**FDEP Facility ID. No.**
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 12:08 ☐ AM ☒ PM **End Time:** 12:10 ☐ AM ☒ PM
Geologist's Name: NICK	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.):	**Borehole Depth** (ft.): 2 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other	
(describe if other or multiple items are checked):	
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)	

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
							1	Dark dirt and organics		D	
								Tan/orange sand fine			from previous parking lot visible rock
							2	Lime Rock at 1 ft			
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
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							16				
							17				
							18				
							19				
							20				
							21				

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Boring Log

Boring/Well No. B20

Permit No: —	**FDEP Facility ID. No.** —
Site Name: Comfort Road	**Borehole Start Date:** 2/22/22 — **End Date:** 2/22/22
Environmental Contractor: LAN Associates, Inc.	**Borehole Start Time:** 12:12 ☐ AM ☒ PM — **End Time:** 12:15 ☐ AM ☒ PM
Geologist's Name: Nick	**Environmental Technician's Name:** Kyle Hayes
Drilling Company: LAN	**Drilling Method(s):** HA
Pavement Thickness (in.): —	**Borehole Depth** (ft.): 3.5 ft
Borehole Diameter (in.) 2.5	**Apparent Borehole DTW** (in ft. from soil moisture content)
OVA (list model and check type): ☐ FID ☐ PID	**Measured Well DTW** (in ft. after water recharges in well)

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **T** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Sample Type	Sample Depth Interval (ft.)	Sample Recovery (in.)	SPT Blows (per six in.)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (ft)	Sample description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
								Dirt and organics		D	
							1	Orange/Brown sand fine		↓	
							2	Minor woodchips 2ft		↓	SS-6 2ft
								Shiney fine black matrix			
							3	Grey sand		M	1:16
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
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							16				
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							18				
							19				
							20				
							21				

Attachment 4

Well Construction Logs

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
TW-1	234 Comfort Road		1-28-22

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [ ] Right-of-Way
- [ ] Flush-to Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Temporary monitoring well

Well Install Method: Hand auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
8.25	8.25	3		____ feet by ____ feet

Riser Diameter and Material: 1 inch PVC

Riser/Screen Connections:
- [x] Flush-Threaded
- [ ] Other (describe)

Riser Length: 5 feet — from 1.75 feet to -3.25 feet

Screen Diameter and Material: 1" PVC, Pre-packed sand

Screen Slot Size: 0.01"

Screen Length: 5 feet — from -3.25 feet to -8.25 feet

1st Surface Casing Material: also check: [ ] Permanent [x] Temporary	**1st Surface Casing I.D. (inches):**	**1st Surface Casing Length:** ____ feet — from ____ feet to ____ feet
2nd Surface Casing Material: also check: [ ] Permanent [ ] Temporary	**2nd Surface Casing I.D. (inches):**	**2nd Surface Casing Length:** ____ feet — from ____ feet to ____ feet
3rd Surface Casing Material: also check: [ ] Permanent [ ] Temporary	**3rd Surface Casing I.D. (inches):**	**3rd Surface Casing Length:** ____ feet — from ____ feet to ____ feet

Filter Pack Material and Size: sand

Prepacked Filter Around Screen (check one):
- [x] Yes
- [ ] No

Filter Pack Length: ____ feet — from ____ feet to ____ feet

Filter Pack Seal Material and Size: ____

Filter Pack Seal Length: ____ feet — from ____ feet to ____ feet

Surface Seal Material: ____

Surface Seal Length: ____ feet — from ____ feet to ____ feet

WELL DEVELOPMENT DATA

Well Development Date: 1-28-22

Well Development Method (check one):
- [x] Surge/Pump
- [ ] Pump
- [ ] Compressed Air
- [ ] Other (Describe)

Development Pump Type (check):
- [ ] Centrifugal
- [x] Peristaltic
- [ ] Submersible
- [ ] Other (describe)

Depth to Groundwater (before developing in feet): 0.52

Pumping Rate (gallons per minute): 0.1

Maximum Drawdown of Groundwater During Development (feet): ____

Well Purged Dry (check one):
- [x] Yes
- [ ] No

Pumping Condition (check one):
- [ ] Continuous
- [x] Intermittent

Total Development Water Removed (gallons): 2

Development Duration (minutes): 20

Development Water Drummed (check one):
- [ ] Yes
- [x] No

Water Appearance (color and odor) At Start of Development: Light brown

Water Appearance (color and odor) At End of Development: clear

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
TW-2	234 Comfort Road		1-28-22

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [ ] Right-of-Way
- [ ] Flush-to Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Temporary monitoring well

Well Install Method: Hand Auger

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
8.6	8.6	3		____ feet by ____ feet

Riser Diameter and Material:

Riser/Screen Connections:
- [x] Flush-Threaded
- [ ] Other (describe)

Riser Length: 5 feet from 1.4 feet to -3.6 feet

Screen Diameter and Material: 1 inch PVC pre-packed

Screen Slot Size: 0.01"

Screen Length: 5 feet from -3.6 feet to -8.6 feet

1st Surface Casing Material:
also check: [ ] Permanent [x] Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: ____ feet from ____ feet to ____ feet

2nd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: ____ feet from ____ feet to ____ feet

3rd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: ____ feet from ____ feet to ____ feet

Filter Pack Material and Size:

Prepacked Filter Around Screen (check one):
- [x] Yes
- [ ] No

Filter Pack Length: ____ feet from ____ feet to ____ feet

Filter Pack Seal Material and Size:

Filter Pack Seal Length: ____ feet from ____ feet to ____ feet

Surface Seal Material:

Surface Seal Length: ____ feet from ____ feet to ____ feet

WELL DEVELOPMENT DATA

Well Development Date: 1/28/22 11:30 am

Well Development Method (check one):
- [ ] Surge/Pump
- [x] Pump
- [ ] Compressed Air
- [ ] Other (Describe)

Development Pump Type (check):
- [ ] Centrifugal
- [x] Peristaltic
- [ ] Submersible
- [ ] Other (describe)

Depth to Groundwater (before developing in feet): 4.79

Pumping Rate (gallons per minute): 0.1

Maximum Drawdown of Groundwater During Development (feet):

Well Purged Dry (check one):
- [x] Yes
- [ ] No

Pumping Condition (check one):
- [ ] Continuous
- [x] Intermittent

Total Development Water Removed (gallons): 3.5

Development Duration (minutes): 35

Development Water Drummed (check one):
- [ ] Yes
- [x] No

Water Appearance (color and odor) At Start of Development: dark brown

Water Appearance (color and odor) At End of Development: light yellow

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
TW-3	234 Comfort Road		1/26/22

Well Location and Type (check appropriate boxes):
- [x] On-Site
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [ ] Right-of-Way
- [ ] Flush-to Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [x] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Temporary monitoring well

Well Install Method: Hand Augers

Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
8.68	8.55	3		feet by feet

Riser Diameter and Material:

Riser/Screen Connections:
- [x] Flush-Threaded
- [ ] Other (describe)

Riser Length: 5 feet from 1.12 feet to -3.88 feet

Screen Diameter and Material: 1 inch PVC Pre-packed

Screen Slot Size: 0.01"

Screen Length: 5 feet from -3.88 feet to -8.68 feet

1st Surface Casing Material:
also check: [ ] Permanent [x] Temporary

1st Surface Casing I.D. (inches):

1st Surface Casing Length: feet from feet to feet

2nd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

2nd Surface Casing I.D. (inches):

2nd Surface Casing Length: feet from feet to feet

3rd Surface Casing Material:
also check: [ ] Permanent [ ] Temporary

3rd Surface Casing I.D. (inches):

3rd Surface Casing Length: feet from feet to feet

Filter Pack Material and Size:

Prepacked Filter Around Screen (check one):
- [x] Yes
- [ ] No

Filter Pack Length: feet from feet to feet

Filter Pack Seal Material and Size:

Filter Pack Seal Length: feet from feet to feet

Surface Seal Material:

Surface Seal Length: feet from feet to feet

WELL DEVELOPMENT DATA

Well Development Date: 1:39 pm 1/28/22

Well Development Method (check one):
- [ ] Surge/Pump
- [x] Pump
- [ ] Compressed Air
- [ ] Other (Describe)

Development Pump Type (check):
- [ ] Centrifugal
- [x] Peristaltic
- [ ] Submersible
- [ ] Other (describe)

Depth to Groundwater (before developing in feet): 4.71

Pumping Rate (gallons per minute): 0.1

Maximum Drawdown of Groundwater During Development (feet):

Well Purged Dry (check one):
- [ ] Yes
- [x] No

Pumping Condition (check one):
- [x] Continuous
- [ ] Intermittent

Total Development Water Removed (gallons): 5.5

Development Duration (minutes): 35

Development Water Drummed (check one):
- [ ] Yes
- [x] No

Water Appearance (color and odor) At Start of Development: Dark Brown

Water Appearance (color and odor) At End of Development: light yellow

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Attachment 5

Calibration Logs

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) Hanna **INSTRUMENT #** 1

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A < 0.10
Standard B 15
Standard C 100
Standard D 750

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/01/28	8:30 am	A	0.10	0.09		Yes	INIT	EL
"	"	B	15	15	"	"	"	"
"	"	C	100	100	"	"	"	"
"	"	D	750	750	"	"	"	"

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI **INSTRUMENT #** 3

PARAMETER: *[check only one]*

- [x] TEMPERATURE
- [x] CONDUCTIVITY
- [ ] SALINITY
- [x] pH
- [x] ORP
- [ ] TURBIDITY
- [ ] RESIDUAL Cl
- [x] DO
- [ ] OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A DO 100%
Standard B pH 7.0
Standard C ORP - Direct Read
Standard D Specific Conductance

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C, D)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/01/28	8:31 am	A	100	100.2		Yes	INIT	EL
		B	7.0	7.03				
		C	Direct Read	245.8				
		D	447.1	447.0				

Attachment 6

Groundwater Sampling Logs

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 234 Comfort Road	SITE LOCATION: 234 Comfort Road, Pooler, GA	
WELL NO: TW-1	SAMPLE ID: TW-1	DATE: 1/28/22

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/4in OD	WELL SCREEN INTERVAL DEPTH: 3.25 to 8.25	STATIC DEPTH TO WATER (feet): 6.53	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (8.25 – 6.53) x feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.25	PURGING INITIATED AT: 10:28	PURGING ENDED AT: 10:38	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:30	0.25	0.25	0.1	NA	6.87	19.8	631	70.5	734	light brown	none
10:32	0.25	0.5	0.1	NA	6.87	19.9	627	76.5	130	clear	none
10:34	0.25	0.75	0.1	NA	6.85	19.9	620	79.8	67.9	clear	none
10:36	0.25	1.0	0.1	NA	6.84	20.0	624	80.1	31.1	clear	none
10:38	0.2	1.2	0.1	NA	6.82	19.9	626	79.4	19.6	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Nicholas Paasche/LAN	SAMPLER(S) SIGNATURE(S): Nicholas Paasche	SAMPLING INITIATED AT: 10:39 am	SAMPLING ENDED AT: 11:03 am
PUMP OR TUBING DEPTH IN WELL (feet): 8.25	TUBING MATERIAL CODE: PE	FIELD-FILTERED: ☐ Y ☒ N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☐ Y ☒ N	TUBING ☐ Y ☒ N (replaced)	DUPLICATE: ☐ Y ☒ N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~UO-MW2~~ TW-1	1	AG	1L	none			8270C	PP	350 mL/min
~~UO-MW2~~	1	AG	1L	none			Dioxins	PP	350
~~UO-MW2~~	1	AG	1L	none			PCBs	PP	350
~~UO-MW2~~	1	AG	250 mL	H2SO4			[redacted] PFC-PFOA	PP	350
~~UO-MW2~~	1	Plastic	500 mL	HNO3			PP Metals (13)	PP	350
TW-1	3	CG	50 mL	HCL (None			8260B	PP	350

REMARKS: pre-preserved

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 234 Comfort Road	SITE LOCATION: 234 Comfort Road, Palatka		
WELL NO: TW-2	SAMPLE ID: TW-2	DATE: 1/28/22	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
1	3/4 in OD	3.6 to 8.6	5.07	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
8.6 ft	8.6 ft	12:27	12:57	3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:30	0.3	0.3	0.1	NA	6.69	20.4	396.5	9.0	125(?)	dark brown	none
12:33	0.3	0.6	0.1		6.82	20.0	394.0	6.6	381	dark brown	none
12:36	0.3	0.9	0.1		6.82	20.1	389.5	5.5	336	clear	none
12:39	0.3	1.2	0.1		6.83	20.0	389.2	5.0	265	clear	none
12:42	0.3	1.5	0.1		6.85	20.0	388.4	4.7	190	clear	none
12:45	0.3	1.8	0.1		6.84	20.0	388.1	4.4	157	clear	none
12:48	0.3	2.1	0.1		6.88	20.0	388.2	4.3	131	clear	none
12:51	0.3	2.4	0.1		6.86	20.0	388.1	4.2	110	clear	none
12:54	0.3	2.7	0.1		6.85	20.0	387.9	4.2	106	clear	none
12:57	0.3	3.0	0.1		6.83	20.1	388.3	4.2	104	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Nicholas Paasche/LAN		12:58	1:15

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: ☐ Y ☒ N Filtration Equipment Type:	FILTER SIZE: ____ µm
8.6	PE		

FIELD DECONTAMINATION: PUMP ☐ Y ☒ N TUBING ☐ Y ☒ N (replaced) DUPLICATE: ☐ Y ☒ N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
UO-MW2	1	AG	1L	none			8270C	PP	350
UO-MW2	1	AG	1L	none			Dioxins	PP	350
UO-MW2	1	AG	1L	none			PCBs	PP	350
UO-MW2	1	AG	250mL	H2SO4			FL-PRO	PP	350
UO-MW2	1	Plastic	500mL	HNO3			PP metals (13)	PP	350
	3	CG	50mL	HCL / None			8260B	PP	350

REMARKS: Pre-preserved

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: 234 Comfort Rd.	SITE LOCATION: 234 Comfort Rd., Palatka
WELL NO: TW-3	SAMPLE ID: TW-3	DATE: 1-28-22

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/4 in OD	WELL SCREEN INTERVAL DEPTH: 3.88 to 8.88	STATIC DEPTH TO WATER (feet): 7.06	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.88	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.88	PURGING INITIATED AT: 2:20	PURGING ENDED AT: 2:35	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
2:23	0.6 ⇨	0.6	0.2	NA	6.03	19.3	809	26.9	447	clear, beige	none
2:26	1.2 ⇨	0.6			6.04	19.3	808	26.4	190		
2:29	1.8 ⇨	0.6			6.02	19.3	796	27.6	105		
2:32	2.4 ⇨	0.6			6.02	19.4	798	30.4	101		
2:35	3.0 ⇨	0.6			5.97	19.5	692	22.9	230		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Nicholas Paasche/LAN	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 2:45	SAMPLING ENDED AT: 3:02
PUMP OR TUBING DEPTH IN WELL (feet): 8.88	TUBING MATERIAL CODE: PE	FIELD-FILTERED: ☐ Y ☒ N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☐ Y ☒ N	TUBING ☐ Y ☒ N (replaced)	DUPLICATE: ☐ Y ☒ N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
UO-MW2	1	AG	1 L	none			8270 C	PP	350
UO-MW2	1	AG	1L	none			Dioxins		
UO-MW2	1	AG	1L	none			PCBs		
UO-MW2	1	AG	250 mL	H2SO4			FL-PRO		
UO-MW2	1	Plastic	500 mL	HNO3			PP Metals (13)		
	3	CG	40 mL	HCl/Ice			8260B		

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Attachment 7

Soil Sampling Logs

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SOIL/~~H~~ SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B12	SAMPLE ID: SS-1
JOB NUMBER: 2-4021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 12:46 PM
~~DEPTH OF WATER BODY:~~	
DEPTH OF SAMPLE:	1.5-2 ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
~~DIRECTION OF FLOW:~~	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES

LAN ASSOCIATES, INC.
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SOIL SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B13	SAMPLE ID: SS-2
JOB NUMBER: 2-4021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 12:50 PM
DEPTH OF WATER BODY:	
DEPTH OF SAMPLE:	2.5-3 ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
DIRECTION OF FLOW:	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES

LAN ASSOCIATES, INC.
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SOIL SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B15	SAMPLE ID: SS-4
JOB NUMBER: 2-3021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 1:02 PM
DEPTH OF WATER BODY:	
DEPTH OF SAMPLE:	1-1.5ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
DIRECTION OF FLOW:	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES

LAN ASSOCIATES, INC.
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SOIL SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B17	SAMPLE ID: SS-3
JOB NUMBER: 2-4021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 12:55 PM
DEPTH OF WATER BODY:	
DEPTH OF SAMPLE:	1-1.5 ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
DIRECTION OF FLOW:	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES

LAN ASSOCIATES, INC.
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SOIL SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B18	SAMPLE ID: SS-5
JOB NUMBER: 2-4021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 1:00 PM
DEPTH OF WATER BODY:	
DEPTH OF SAMPLE:	2.5ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
DIRECTION OF FLOW:	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES

LAN ASSOCIATES, INC.
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SOIL SAMPLE FORM

SITE NAME: Comfort Road	SAMPLE LOCATION: B20	SAMPLE ID: SS-6
JOB NUMBER: 2-4021-02	SAMPLED BY: NP	DATE: 2/22/22

TIME:	AM 1:10 PM
DEPTH OF WATER BODY:	
DEPTH OF SAMPLE:	2 ft
ANTECEDENT WEATHER CONDITIONS:	SUNNY
DIRECTION OF FLOW:	
VELOCITY OF FLOW:	

TURBIDITY	TEMP	DISSOLVED OXYGEN	CONDUCTIVITY	TDS	SALINITY	pH	ORP
NTUs	*°C*	*mg/L*	*µS/cm*	*g/L*	*ppt*	*Standard*	*mv*

FIELD REMARKS/NOTES